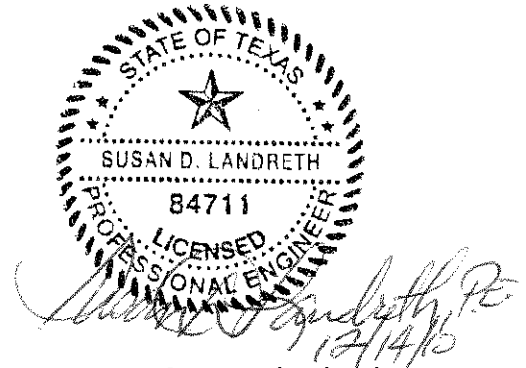


CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

PROJECT NAME: Callaghan Road – Culebra to Commerce
PROJECT NO. 40-00007

DATE December 13, 2010



ADDENDUM NO. 2

This addendum shall be included in and be considered part of the plans and specifications for the above named project. The Contractor will be required to sign an acknowledgment of the receipt of this addendum at the time they receive it.

ITEM NO. 1: The following questions were submitted by Yantis Company on November 29, 2010:

1. Reference Typical Pavement Sections, Sheet 18 of 334 & Geotechnical Report, Pavement Recommendations; please confirm our understanding of the base bid sections and PG requirements:
 - a. Callaghan Road and Culebra Road are Arterial Streets and have the following requirements:
 - 2" HMAC Type D (PG76-22)
 - 3" HMAC Type C (PG64-22)
 - b. Stiffkey Drive & Martin Goland Ave are Collector Streets
 - 2" HMAC Type D (PG70-22)
 - 3" HMAC Type C (PG64-22)
 - c. For the Additive Alternate pavement section for Callaghan Road
 - 1.5" HMAC Type D (PG76-22)
 - 2" HMAC Type C (PG70-22)
 - 8" HMAC Type B (PG64-22)
 - d. For the Additive Alternate pavement section for the Stiffkey Drive & Martin Goland Ave
 - 1.5" HMAC Type D (PG70-22)
 - 2" HMAC Type C (PG70-22)
 - 7" HMAC Type B (PG64-22)
 - e. Temporary HMAC Type A (6") & HMAC Type C (2") will be PG64-22?
The base bid sections consist of the 2" and 3" HMAC surface courses, but also include Flexible Base. Callaghan and Culebra roads shall have 17" Flexible Base. Stiffkey and Martin Goland shall have 13" Flexible Base.

The additive alternates includes the 1.5" and 2" HMAC surface courses with Callaghan and Culebra having 8" HMAC Type B as base and Stiffkey and Martin Goland will have 7" HMAC Type B base.

The temporary pavement consists of the 6" HMAC Type A base and 2" HMAC Type C surface.

2. Reference SAWS Water Drawings & Bid Item 3000.15; the drawings call for 1 joint of AC pipe to be removed at tie-in points and for the remaining AC pipe to be abandoned in place. However, based on the location of the existing AC pipe, additional footage of AC main may need to be removed when in conflict including several locations including the storm drainage system, sewer system and proposed water mains / services. Will you provide either existing AC pipe inverts, identify any additional locations of conflicts of AC pipe or change the bid item to a unit of measure to "LF", so that all contractors will be bidding the same quantity?

Removal of all AC pipe shall be paid for under Bid Item 3000.14, "Removal, Transportation and Disposal of AC Pipe" on a lump sum basis for all phases of construction. Contractor shall be responsible for identifying depths of AC main at all potential conflicts and determination how much AC pipe must be removed if any. Special waste management procedures and health safety requirements will be applicable or removal of all AC pipe. Contractor shall take precautions not to cut, crush, break or otherwise damage AC pipe during the removal process.

3. Will the award of the contract be based on the lowest base bid + alternate #1 or base bid only?

The low bid is determined as the combination of the base bid and selected alternative that will comprise the construction contract.

ITEM NO. 2: The following questions were submitted by Yantis Company on December 7, 2010

1. Reference Drainage Structures C1 through C4; G1 through G4;

- a. Which bid item do these structures get paid under?

The structures referred to are labeled as special junction boxes and shall be paid for under Item 403.6 Special Junction Box (Complete). The special junction box consists of a Stage II vertical stack and shall be constructed in accordance with the vertical stack details shown on the plans.

- b. Please provide a structured detail

Vertical stack detail is shown on plan sheets 239 and 240.

2. Reference Bid Item 403.16, 60 foot Inlet; where is the structure located? Found the structure but missing the invert and top elevations for bidding purposes.

The existing curb inlet is to be replaced with the same size and depth inlet. The contractor shall match the top and invert of the existing inlet. See Sheet 223.

3. Will the contractor have the option of casting in place the box culverts?

The Contractor shall provide all submittals and adhere to construction practices and regulations and shall construct the box culverts in accordance with the specifications and details in the construction documents. Contractor shall be responsible for the means and methods of construction and compliance with the construction schedule. Box culverts constructed by casting in place shall comply with Specification Item 307.

ITEM NO. 3: The following questions were submitted by Yantis Company on December 3, 2010:

1. What is the lime application rate for the project and will the cost of the lime material be paid under a new bid item?

The lime application rate is 3 percent by weight. This is provided in the geotechnical report and has been added as a note to the construction documents. Lime shall be paid for under Item 108.2 Lime. See Sheets 16-22.

2. Reference Sheets 206 & 224; the names on the inlets for CI A-7 & CI A-8 are switched from the plan view. Which is correct, the plan or profile view?

The inlets are correct as shown on the plans. The north direction on the stormwater plans are reversed from the street plans.

3. I found the proposed 60' curb inlet on sheet 223, so please ignore that question on my previous e-mail.

See response to question number 2 under Item No. 2 above.

4. Reference Sheet 223, which bid item will the removal of the 2 – 30' inlets be paid under?

The removal of the existing curb inlets shall be considered incidental to the new curb inlets. The pay item for the 30' inlets is Item 403.12 Inlets (Complete) 30'.

5. Reference Sheet 224, the plan view shows a 42" RCP penetrating into the 6'x4' BC (north side), however we assume that line is really a 36" RCP main. Please confirm.

The pipe shown on Sheet 214 is Line "F" which is a 36" RCP. Sheet 214 has been corrected.

6. Please confirm that the City of SA will be responsible for geotechnical testing.

The Contractor is responsible for materials testing. Under "085 General Conditions, 14.6.2-the Contractor is responsible for providing QC inspecting and testing services. . ."

ITEM NO. 4: The following questions were submitted by Yantis Company on December 8, 2010:

1. Will a "force account" be added for the cost of Off-Duty Police Officers as directed by the traffic engineer?

The City will provide for an allowance of \$50,000 for the cost of off-duty police officers during construction.

2. Reference Sheet 34; we assume the 3:1 sloped edge of the temporary pavement is included in the measurement of payment for Bid Items # 205.1 & 205.3. Please confirm.

The 3:1 slope is included in the measurement of payment. We went ahead and added a note to the typical sections to address any confusion.

3. Will the installation and removal of the temporary pavement markings be paid for directly?

Temporary pavement markings are included under Items 536.1, 536.2, and 535.7. Added Item 533 to the Summary Sheet and added the quantities for this item. Also revised Specification 533 to state this item will be paid for directly.

4. Reference Sheets 127,133 & 144, Obliterating Abandoned Street; we are having some difficulty in matching up with the bid quantity. The drawings show the limits of the obliteration to stop just outside the proposed new Callaghan Road and a note states that the existing pavement is to be obliterated. Is the intent of the bid item to remove only a portion of the asphalt of the existing Callaghan Road where the proposed and existing meet? The rest of the abandoned road will be "as is" (with asphalt)? Please clarify the limits of payment for this bid item and if the contractor is to do any work with the rest of the abandoned Callaghan Road.

The intent is to remove a portion of the existing pavement adjacent to the new street. The limit of the removal is shown on the plans. All pavement beyond the limits will remain.

5. What is the difference between bid item 520.1 & 521.1, Hydromulch?

Item 521 Hydromulch requires a bonded fiber matrix seeding and is shown to be placed within the drainage channel. Item 520 Hydromulch shall be placed in all other graded areas as noted on the plans.

ITEM NO. 5: The following questions were submitted by EZ-Bel on December 10, 2010:

1. Please clarify or confirm the mountain laurel spec with respect to height and caliper, if the specified product is true and correct, please identify three comparable sources which would meet the spec.

The Mountain Laurels specification should be as follows:

Texas Mountain Laurel

Sophora secundiflora

30 gallons

Multi-Trunk, 5-7 Canes

5'-6' Height, 5'-6' Spread

Contractor to provide photos of plant materials before purchase

2. Does the scope of work for the CPS Energy street lights require the contractor to provide and install conductors; or is the scope limited to conduits without wires?

CPS Energy will provide and install the conductors (wires), the contractor will install the conduits.

3. The foundation detail for the CPS Energy street lights that is provided is an old standard; is that the intent of the bid docs?

The foundations are to be built per the detail on the sketch.

ITEM NO. 6: Sanitary Sewer sheets 7, 8 & 9 have been revised. A note has been changed to read "ALL 15 " SANITARY SEWER PIPE SHALL BE SDR 26 AND ALL LATERALS SHALL BE ASTM 2241 PIPE WITH A MINIMUM PRESSURE RATING OF 160 PSI". Sheets attached.

**CITY OF SAN ANTONIO
DEPARTMENT OF CAPITAL IMPROVEMENTS MANAGEMENT SERVICES
CONTRACT SERVICES DIVISION**

RECEIPT OF ADDENDUM NUMBER _____ IS HEREBY ACKNOWLEDGED FOR
PLANS AND

SPECIFICATIONS FOR CONSTRUCTION OF _____

FOR WHICH BIDS WILL BE OPENED ON _____

THIS ACKNOWLEDGEMENT MUST BE SIGNED AND RETURNED WITH
THE BID PACKAGE.

Company Name: _____

Address: _____

City/State/Zip Code: _____

Date: _____

Signature

Print Name/Title

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

1

PROJECT NAME: CALLAGHAN ROAD - CULEBRA TO COMMERCE
PROJECT NO. 40-00007

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
STREETS AND DRAINAGE BASE BID									
	100.1			Mobilization	L.S.	1		\$ -	
	100.2			Insurance and Bond	L.S.	1		\$ -	
	101.1			Preparing Right-of-Way	L.S.	1		\$ -	
	102.1			Obliterating Abandoned Street	S.Y.	1,118		\$ -	
	103.1			Remove Concrete Curb	L.F.	7,702		\$ -	
	103.3			Remove Concrete Sidewalks and Driveways	S.F.	32,521		\$ -	
	103.5			Remove Miscellaneous Concrete	S.F.	1,827		\$ -	
	104.1			Street Excavation	C.Y.	45,706		\$ -	
	105.1			Channel Excavation	C.Y.	8,695		\$ -	
	106.1			Box Culvert Excavation and Backfill	C.Y.	7,900		\$ -	
	107.1			Embankment	C.Y.	10,856		\$ -	
	108.1			Lime Treated Subgrade (6" Compacted Depth)	S.Y.	61,676		\$ -	
	108.2			Lime	TON	500		\$ -	
	200.1			Flexible Base (13" compacted depth)	S.Y.	3,516		\$ -	
	200.1			Flexible Base (17" compacted depth)	S.Y.	58,160		\$ -	
	202.1			Prime Coat	GAL.	10,951		\$ -	
	203.1			Tack Coat	GAL.	5,475		\$ -	
	205.1			Temporary Hot Mix Asphaltic Pavement Type "A" (6")	S.Y.	6,083		\$ -	
	205.3			Hot Mix Asphaltic Pavement Type "C" (3")	S.Y.	54,754		\$ -	
	205.3			Temporary Hot Mix Asphaltic Pavement Type "C" (2")	S.Y.	6,083		\$ -	
	205.4			Hot Mix Asphaltic Pavement Type "D" (2")	S.Y.	56,131		\$ -	
	209.1			Concrete Pavement (10" Deep)	S.Y.	801		\$ -	
	229.1			Milling (Planing) and Disposal of Asphaltic Pavement (2")	SY	1,377		\$ -	
	237.1			Pothole Repair	S.Y.	100		\$ -	
	306.1			Structural Excavation	C.Y.	25		\$ -	
	307.1			Concrete Structure (Headwalls or Outfall Structures)	C.Y.	145		\$ -	
	308.1			Drilled Shafts (24")	L.F.	11.4		\$ -	
	308.1			Drilled Shafts (30")	L.F.	11.3		\$ -	
	308.1			Drilled Shafts (36")	L.F.	146.4		\$ -	
	309.1			Reinforced Concrete Box Culverts (6' x 4')	L.F.	448		\$ -	
	309.1			Reinforced Concrete Box Culverts (6' x 5')	L.F.	1,212		\$ -	
	309.1			Reinforced Concrete Box Culverts (7' x 4')	L.F.	1,159		\$ -	
	309.1			Reinforced Concrete Box Culverts (8' x 4')	L.F.	568		\$ -	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

2

PROJECT NAME: CALLAGHAN ROAD - CULEBRA TO COMMERCE
PROJECT NO. 40-00007

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	401.1			Reinforced Concrete Pipe (Class III) (24 inches dia.)	L.F.	1,308		\$ -	
	401.1			Reinforced Concrete Pipe (Class III) (30 inches dia.)	L.F.	768		\$ -	
	401.1			Reinforced Concrete Pipe (Class III) (36 inches dia.)	L.F.	1,039		\$ -	
	401.1			Reinforced Concrete Pipe (Class III) (42 inches dia.)	L.F.	12		\$ -	
	403.1			Junction Box (Complete) 4'x4'x4'	EA.	3		\$ -	
	403.2			Junction Box (Complete) 5'x5'x5'	EA.	7		\$ -	
	403.6			Special Junction Boxes (Complete)	EA.	8		\$ -	
	403.8			Inlet (Complete) 10'	EA.	15		\$ -	
	403.10			Inlet (Complete) 20'	EA.	6		\$ -	
	403.12			Inlet (Complete) 30'	EA.	3		\$ -	
	403.15			Junction Box (Complete) 9'x9'x7'	EA.	1		\$ -	
	403.16			Inlet (Complete) 60'	EA.	1		\$ -	
	407.1			Concrete Encasement	C.Y.	5		\$ -	
	410.2			Gravel Subgrade Filler	C.Y.	813		\$ -	
	413.1			Flowable Fill (Low Strength)	C.Y.	5		\$ -	
	500.1			Concrete Curb	L.F.	24,810		\$ -	
	502.1			Concrete Sidewalks	S.Y.	12,100		\$ -	
	503.2			Portland Cement Concrete Driveways - Commercial	S.Y.	1,770		\$ -	
	503.4			Asphaltic Concrete Driveways	S.Y.	810		\$ -	
	504.2			Concrete Directional Island	S.Y.	302		\$ -	
	505.1			Concrete Riprap (5" Thick)	S.Y.	1,092		\$ -	
	506.1			Concrete Retaining Wall - Combination Type	C.Y.	23		\$ -	
	507.1			Chain Link Wire Fence (4' High)	L.F.	74		\$ -	
	507.2			Chain Link Wire Fence (6' High)	L.F.	2,471		\$ -	
	507.5			Gates - Vehicular	EA.	1		\$ -	
	507.6			Temporary Chainlink Construction Fence	L.F.	3,561		\$ -	
	515.1			Topsoil	C.Y.	3,243		\$ -	
	516.1			Bermuda Sodding	S.Y.	1,113		\$ -	
	520.1			Hydromulching	S.Y.	19,043		\$ -	
	521.1			Hydromulching	S.Y.	9,038		\$ -	
	525.1			Concrete Traffic Barrier (Portable)	L.F.	9,830		\$ -	
	530.1			Barricades, Signs and Traffic Handling	L.S.	1		\$ -	
	531.1			Metro Street Name, Block Numbers	EA.	2		\$ -	
	531.3			R1-1 STOP	EA.	2		\$ -	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

3

PROJECT NAME: CALLAGHAN ROAD - CULEBRA TO COMMERCE
PROJECT NO. 40-00007

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	531.4			R1-2 YIELD	EA.	6		\$ -	
	531.6			R2-1 Speed Limit	EA.	1		\$ -	
	531.8			R3-2 NO LEFT TURN	EA.	1		\$ -	
	531.11			R3-5 Right Only (30"x36") (High Density)	EA.	1		\$ -	
	531.12			R3-6 Lane Use Control	EA.	3		\$ -	
	531.14			R3-8 Lane Use Control	EA.	5		\$ -	
	531.68			R3-17 (Bike Lane) (30"x24") (High Density)	EA.	5		\$ -	
	531.69			R3-17a (Ahead) (30"x12") (High Density)	EA.	1		\$ -	
	531.70			R3-17b (End) (30"x12") (High Density)	EA.	1		\$ -	
	531.75			D11-1 (Bike Route) (24"x18")	EA.	5		\$ -	
	533			Cleaning and Removal of Pavement Markings and Markers	L.F.	31,435		\$ -	
	535.1			4" Wide Yellow Line	L.F.	17,499		\$ -	
	535.2			4" Wide White Line (Broken)	L.F.	4,343		\$ -	
	535.2			4" Wide White Line	L.F.	15,196		\$ -	
	535.4			8" Wide White Line	L.F.	4,160		\$ -	
	535.7			24" Wide White Line	L.F.	2,076		\$ -	
	535.7			24" Wide Yellow Line (Solid)	L.F.	144		\$ -	
	535.8			Right White Arrow	EA.	5		\$ -	
	535.9			Left White Arrow	EA.	38		\$ -	
	535.12			Word "ONLY"	EA.	17		\$ -	
	535.15			White Diamond	EA.	4		\$ -	
	535.17			Bicycle Rider Symbol	EA.	4		\$ -	
	536.1			4 Inch Wide Yellow Line (Sld)	L.F.	50,387		\$ -	
	536.2			4 Inch Wide White Line (Sld)	L.F.	21,734		\$ -	
	536.2			4 Inch Wide White Line (Brk)	L.F.	20		\$ -	
	536.3			8 Inch Wide White Line (Sld)	L.F.	994		\$ -	
	537.6			Pavement Marker, Type I-C	EA.	591		\$ -	
	537.8			Pavement Marker, Type II-A-A	EA.	337		\$ -	
	540.1			Rock Filter Dams (Install/Remove) (Type 4)	L.F.	188		\$ -	
	540.6			Construction Exits (Install/Remove)	S.Y.	1,120		\$ -	
	540.9			Temporary Sediment Control Fence	L.F.	3,725		\$ -	
	540.10			Curb Inlet Gravel Filters	L.F.	941		\$ -	
	550.1			Trench Excavation Safety Protection	L.F.	5,819		\$ -	
	615.1			Traffic Signal Controller Assembly (Type 332 Cabinet)	EA.	4		\$ -	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

4

PROJECT NAME: CALLAGHAN ROAD - CULEBRA TO COMMERCE
PROJECT NO. 40-00007

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	618.1			Conduit (2 Inch/PVC Schedule 40)	L.F.	628		\$ -	
	618.2			Conduit (3 Inch/PVC Schedule 40)	L.F.	2,206		\$ -	
	620.1			Electrical Conductors (No. 6) (Bare)	L.F.	523		\$ -	
	620.3			Electrical Conductors (No. 6) (Insulated)	L.F.	184		\$ -	
	624.8			Ground Boxes Type D (162922) w/Apron	EA.	13		\$ -	
	628.1			Electrical Services	EA.	1		\$ -	
	633.1			Battery Backup System	EA.	4		\$ -	
	655.1			Type 332 Controller Foundation	EA.	4		\$ -	
	680.1			Installation of Highway Traffic Signals (System)	EA.	4		\$ -	
	680 SUP 01			Removal of Traffic Signal	EA.	2		\$ -	
	680 SUP 02			CISCO AIR-CAP1522AG-AK9	EA.	4		\$ -	
	680 SUP 03			CISCO AIR-ANT2480V-N	EA.	12		\$ -	
	680 SUP 04			CISCO AIR-CORD-R3P-40NA	EA.	4		\$ -	
	680 SUP 05			CISCO AIR-ANT5180V-N	EA.	4		\$ -	
	680 SUP 06			CISCO AIR-ACCPMK1520	EA.	4		\$ -	
	680 SUP 07			CISCO SMARTNET 8V5NBD	EA.	4		\$ -	
	680 SUP 08			GRAYBAR VNTC 16-3-R10K-BED	L.F.	1,200		\$ -	
	680 SUP 09			GRAYBAR 7919A 01001000	L.F.	2,400		\$ -	
	680 SUP 10			ALVARION ALV-853197	EA.	1		\$ -	
	680 SUP 11			PELCO AB-3004-29	EA.	1		\$ -	
	680 SUP 12			PELCO AB-2003-23	EA.	1		\$ -	
	680 SUP 13			TYPE 332 TO NEMA "p" ADAPTER	EA.	1		\$ -	
	681.1			Temporary Traffic Signals	EA.	2		\$ -	
	682.1			Install Vehical Signal Section with Back Plate (12") (3 Sec)	EA.	28		\$ -	
	682.2			Install Vehical Signal Section with Back Plate (12") (4 Sec)	EA.	8		\$ -	
	682.4			Install Pedestrian Signal Section (12") LED (2 Ind) (Countdown)	EA.	16		\$ -	
	683.1			LED Countdown Pedestrian Signal Module	EA.	22		\$ -	
	684.1			Traffic Signal Cables (Type A (14 AWG) (Conductor No. 4)	L.F.	2,406		\$ -	
	684.1			Traffic Signal Cables (Type A) (14 AWG) (Conductor No. 9)	L.F.	4,548		\$ -	
	686.1			Traffic Signal Pole Assemblies (Steel) (1 Arm 36')	EA.	4		\$ -	
	686.1			Traffic Signal Pole Assemblies (Steel) (1 Arm 40')	EA.	3		\$ -	
	686.1			Traffic Signal Pole Assemblies (Steel) (1 Arm 44')	EA.	2		\$ -	
	686.1			Traffic Signal Pole Assemblies (Steel) (1 Arm 48')	EA.	3		\$ -	
	687.1			Pedestal Pole Assembly	EA.	2		\$ -	

PROJECT NAME: CALLAGHAN ROAD - CULEBRA TO COMMERCE
PROJECT NO. 40-00007

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	688.2			Pedestrian Detectors [2 Inch Push Button]	EA.	38		\$ -	
	693.1			Internally Lighted Street Name Signs [Type/Size 6ft]	EA.	6		\$ -	
	693.1			Internally Lighted Street Name Signs [Type/Size 8ft]	EA.	6		\$ -	
	694.1			VIVDS Processor Unit	EA.	23		\$ -	
	694.2			VIVDS Camera Assembly	EA.	34		\$ -	
	694.4			VIVDS Set-Up System	EA.	4		\$ -	
	694.6			VIVDS Communication Cable (Coaxial)	L.F.	7,979		\$ -	
	695.3			Emergency Preemption Detector	EA.	15		\$ -	
	695.4			Emergency Preemption Detector Cable	L.F.	3,766		\$ -	
	801.1			Level I Protective Fencing	L.F.	1,950		\$ -	
	801.2			Level IIA Protective Fencing	L.F.	400		\$ -	
	801.3			Level IIB Protective Fencing	L.F.	250		\$ -	
	802.1			Tree Pruning	EA.	135		\$ -	
	810			Tree Removal	EA.	184		\$ -	
	1100			Demolition of Private Drive, Unclassified Excavation	S.Y.	580		\$ -	
	2783.1			Permeable Pavers (Eco Piora Pavers)	S.F.	13,125		\$ -	
	2783.2			Impermeable Pavers (Holland Stone Pavers)	S.F.	31,525		\$ -	
	2871			Tree Grate	EA.	35		\$ -	
	2900.1			Large Trees-Cedar Elm-#95 Plastic Container	EA.	35		\$ -	
	2900.2			Accent Trees - Texas Mountain Laurel-#95 Plastic Container	EA.	12		\$ -	
	2900.3			Large Trees - Live Oak-#95 Plastic Container	EA.	25		\$ -	
	2900.4			Gator Bags	EA.	60		\$ -	
	2900.5			Root Barrier	L.F.	8,700		\$ -	
	2900.6			3/8" Pea Gravel	C.Y.	35		\$ -	
	2900.7			#8 Aggregate	C.Y.	70		\$ -	
	2900.8			#2 Aggregate	C.Y.	245		\$ -	
	2900.9			#57 Aggregate	C.Y.	175		\$ -	
	2900.10			Cornell University Structural Soil	C.Y.	3,400		\$ -	
	0450-2025			Pedestrian Rail (PR1)	L.F.	260		\$ -	
	0465-2003			Special Inlet (TxDOT Inlet Type H)	EA.	5		\$ -	
	104-2011			Removing Concrete Median	S.Y.	191		\$ -	
TOTAL STREET AND DRAINAGE BASE BID								\$ -	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: CALLAGHAN ROAD - CULEBRA TO COMMERCE
PROJECT NO. 40-00007

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
SAWS WATER MAIN - JOB NO. 08-5058 BASE BID									
	100			MOBILIZATION	LS	1		\$ -	
	101			PREP. R.O.W.	LS	1		\$ -	
	511.1			REPLACING W/HMAC (8" COMPACTED DEPTH)	SY	555		\$ -	
	550			TRENCH EXCAVATION PROTECTION	LF	5,730		\$ -	
	814			12" DUCTILE IRON PIPE (RESTRAINED)	LF	5		\$ -	
	814			20" DUCTILE IRON PIPE (RESTRAINED)	LF	50		\$ -	
	818			8" PVC C-900 WATER LINE (RESTRAINED)	LF	1,015		\$ -	
	818			12" PVC C-900 WATER LINE (RESTRAINED)	LF	4,855		\$ -	
	824			RELAY 3/4" SHORT SERVICE	EA	10		\$ -	
	824			RELAY 3/4" LONG SERVICE	EA	1		\$ -	
	824			RELAY 1" SHORT SERVICE	EA	1		\$ -	
	824			RELAY 1" LONG SERVICE	EA	2		\$ -	
	828			8" GATE VALVE	EA	1		\$ -	
	828			12" GATE VALVE	EA	11		\$ -	
	830			20" BUTTERFLY VALVE	EA	1		\$ -	
	833			EXISTING METER & NEW METER BOX RELOCATION	EA	14		\$ -	
	834			STANDARD FIRE HYDRANT	EA	7		\$ -	
	836			DUCTILE IRON FITTINGS	TON	14		\$ -	
	840			8" WATER TIE-IN	EA	2		\$ -	
	840			12" WATER TIE-IN	EA	7		\$ -	
	840			20" WATER TIE-IN	EA	2		\$ -	
	841			HYDROSTATIC TEST	EA	7		\$ -	
	844			2" TEMPORARY BLOWOFF	EA	7		\$ -	
	844			4" TEMPORARY BLOWOFF	EA	1		\$ -	
	858			CONCRETE ENCASUREMENT, CRADLES, SADDLES AND COLLARS	CY	7		\$ -	
	3000.14			REMOVAL , TRANSPORTATION AND DISPOSAL OF AC PIPE	LS	1		\$ -	
	3000.15			ASBESTOS ABATEMENT WORKPLAN	LS	1		\$ -	
TOTAL SAWS WATER MAIN JOB NO.: 08-5058 BASE BID								\$ -	

PROJECT NAME: CALLAGHAN ROAD - CULEBRA TO COMMERCE
PROJECT NO. 40-00007

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
SAWS SEWER MAIN - JOB NO. 08-5558 BASE BID									
	100			MOBILIZATION	LS	1		\$ -	
	101			PREP. R.O.W.	LS	1		\$ -	
	511.1			REPLACING W/HMAC (8" COMPACTED DEPTH)	SY	415		\$ -	
	550			TRENCH EXCAVATION PROTECTION	LF	1,581		\$ -	
	848			8" PVC GRAVITY SEWER SDR-26 (0'-6')	LF	28		\$ -	
	848			8" PVC GRAVITY SEWER SDR-26 (6'-10')	LF	667		\$ -	
	848			10" PVC GRAVITY SEWER SDR-26 (6'-10')	LF	69		\$ -	
	848			15" PVC GRAVITY SEWER SDR-26 (0'-6')	LF	16		\$ -	
	848			15" PVC GRAVITY SEWER SDR-26 (6'-10')	LF	397		\$ -	
	848			15" PVC GRAVITY SEWER SDR-26 (10'-14')	LF	405		\$ -	
	851			ADJUSTING EXISTING MANHOLES (WATERTIGHT RING & COVER)	EA	3		\$ -	
	852			SANITARY SEWER MANHOLE (0'-6')	EA	9		\$ -	
	852			SANITARY SEWER DROP MANHOLE (0'-6')	EA	1		\$ -	
	852.3			EXTRA DEPTH MANHOLE (>6')	VF	33		\$ -	
	854			SANITARY SEWER LATERALS	LF	175		\$ -	
	854.1			ONE WAY SANITARY SEWER CLEAN OUTS	EA	4		\$ -	
	856.2			15" CARRIER PIPE FOR 30" CASING	LF	15		\$ -	
	856.3			30" O.D. STEEL CASING (PLACED IN OPEN CUT)	LF	15		\$ -	
	858			CONCRETE ENCASEMENT, CRADLES, SADDLES AND COLLARS	CY	18		\$ -	
	860			VERTICAL STACKS	VF	8		\$ -	
	862			ABANDON EXISTING MAINS AND MANHOLES	LF	909		\$ -	
	864			BYPASS PUMPING	LS	1		\$ -	
	866			SEWER MAIN TV INSPECTION (8")	LF	1,581		\$ -	
TOTAL SAWS SEWER MAIN JOB NO.: 08-5558 BASE BID								\$ -	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: CALLAGHAN ROAD - CULEBRA TO COMMERCE
PROJECT NO. 40-00007

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
CPS Energy Job No. 1469608 Gas Main Base Bid									
	1			Rerun Gas Service Off New Main (Main to 1" Inside Property)					
				Short Side	EA.	1		\$ -	
				Long Side	EA.	1		\$ -	
	2			Install Gas Main or Casing (Distance Measured Along the Top of Trench)					
				4" Steel Pipe	1 ft.	300		\$ -	
				8" Steel Pipe	1 ft.	80		\$ -	
				12" Steel Pipe	1 ft.	5,525		\$ -	
				TOTAL CPS ENERGY JOB NO.: 1469608 GAS MAIN BASE BID				\$ -	
CPS Energy Street Lights Base Bid									
	1			Light Pole Foundations and Conduits (Complete)	LS	1		\$ -	
				TOTAL CPS ENERGY STREET LIGHTS BASE BID				\$ -	
SUMMARY									
				TOTAL STREET AND DRAINAGE BASE BID				\$ -	
				TOTAL SAWS WATER MAIN JOB NO.: 08-5058 BASE BID				\$ -	
				TOTAL SAWS SEWER MAIN JOB NO.: 08-5558 BASE BID				\$ -	
				TOTAL CPS ENERGY JOB NO.: 1469608 GAS MAIN BASE BID				\$ -	
				TOTAL CPS ENERGY STREET LIGHTS BASE BID				\$ -	
				Total Bid Amount:				\$ -	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: CALLAGHAN ROAD - CULEBRA TO COMMERCE
PROJECT NO. 40-00007

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
Additive Alternate #1									
ADD:									
	107.1			Embankment	C.Y.	10,856		\$ -	
	205.2			Hot Mix Asphaltic Pavement Type "B" (7")	S.Y.	3,516		\$ -	
	205.2			Hot Mix Asphaltic Pavement Type "B" (8")	S.Y.	58,160		\$ -	
	205.3			Hot Mix Asphaltic Pavement Type "C" (2")	S.Y.	54,754		\$ -	
	205.4			Hot Mix Asphaltic Pavement Type "D" (1.5")	S.Y.	54,754		\$ -	
						Total Additions:	\$	-	
DEDUCT:									
	104.1			Street Excavation	C.Y.	17,871		\$ -	
	200.1			Flexible Base (13" compacted depth)	S.Y.	3,516		\$ -	
	200.1			Flexible Base (17" compacted depth)	S.Y.	58,160		\$ -	
	205.3			Hot Mix Asphaltic Pavement Type "C" (3")	S.Y.	54,754		\$ -	
	205.4			Hot Mix Asphaltic Pavement Type "D" (2")	S.Y.	54,754		\$ -	
						Total Deductions:	\$	-	
						Total Additive Alternate #1:	\$	-	
						Total Base Bid plus Additive Alternate #1:	\$	-	

_____ certifies that the unit prices shown on this complete computer print-out for all of the bid items and the alternates contained in this proposal are the unit prices intended and that its bid will be tabulated using these unit prices and no other information from this print-out.

_____ Acknowledged and agrees that the total bid amount shown will be read as its total bid and further agrees that the official total bid amount will be determined by multiplying the unit bid prices shown in this print-out by the respective estimated quantities shown in the proposal and then totaling all of the extended amounts. _____ agrees to the terms, conditions, and requirements of the bidder's bid proposal.

Signed: _____ Date: _____

Title: _____

ITEM 533 – MODIFICATION

CLEANING AND REMOVAL OF PAVEMENT MARKINGS AND MARKERS

533.1. DESCRIPTION:

As specified in Specification Item 533 "CLEANING AND REMOVAL OF PAVEMENT MARKINGS AND MARKERS"

533.2. MATERIALS:

As specified in Specification Item 533 "CLEANING AND REMOVAL OF PAVEMENT MARKINGS AND MARKERS"

533.3. EQUIPMENT:

As specified in Specification Item 533 "CLEANING AND REMOVAL OF PAVEMENT MARKINGS AND MARKERS"

533.4. CONSTRUCTION:

As specified in Specification Item 533 "CLEANING AND REMOVAL OF PAVEMENT MARKINGS AND MARKERS"

533.5. MEASUREMENT: *Add:*

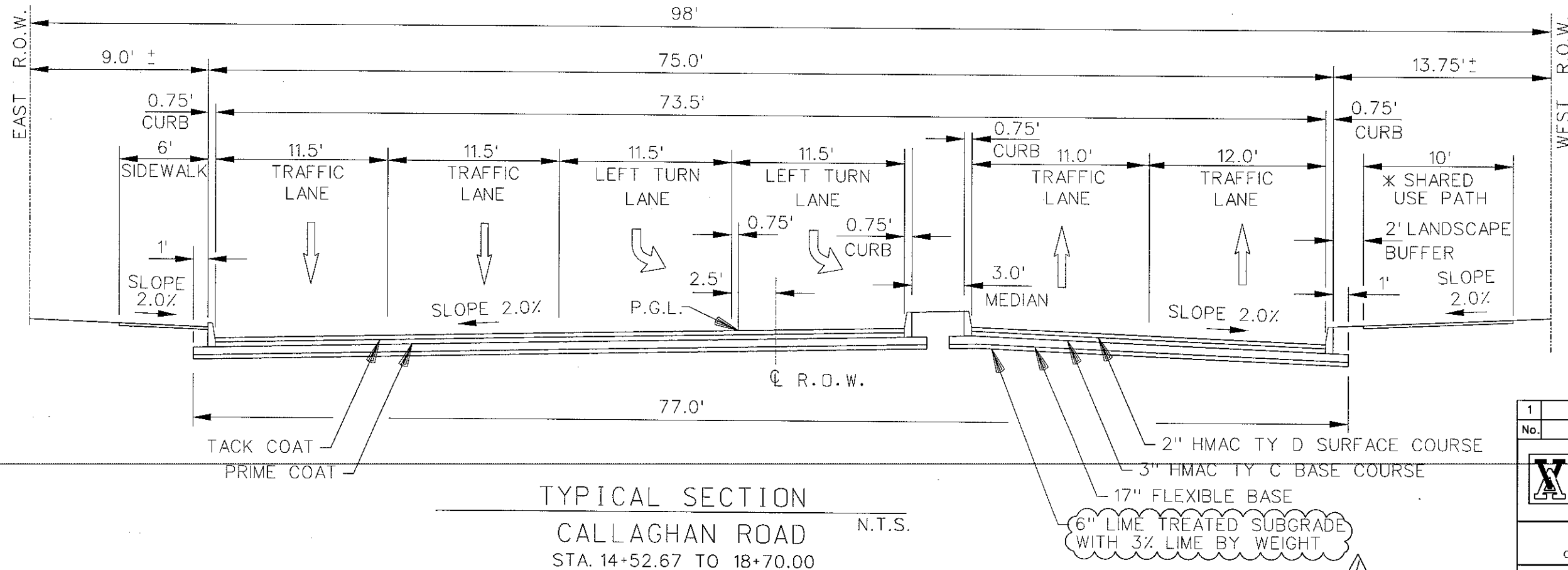
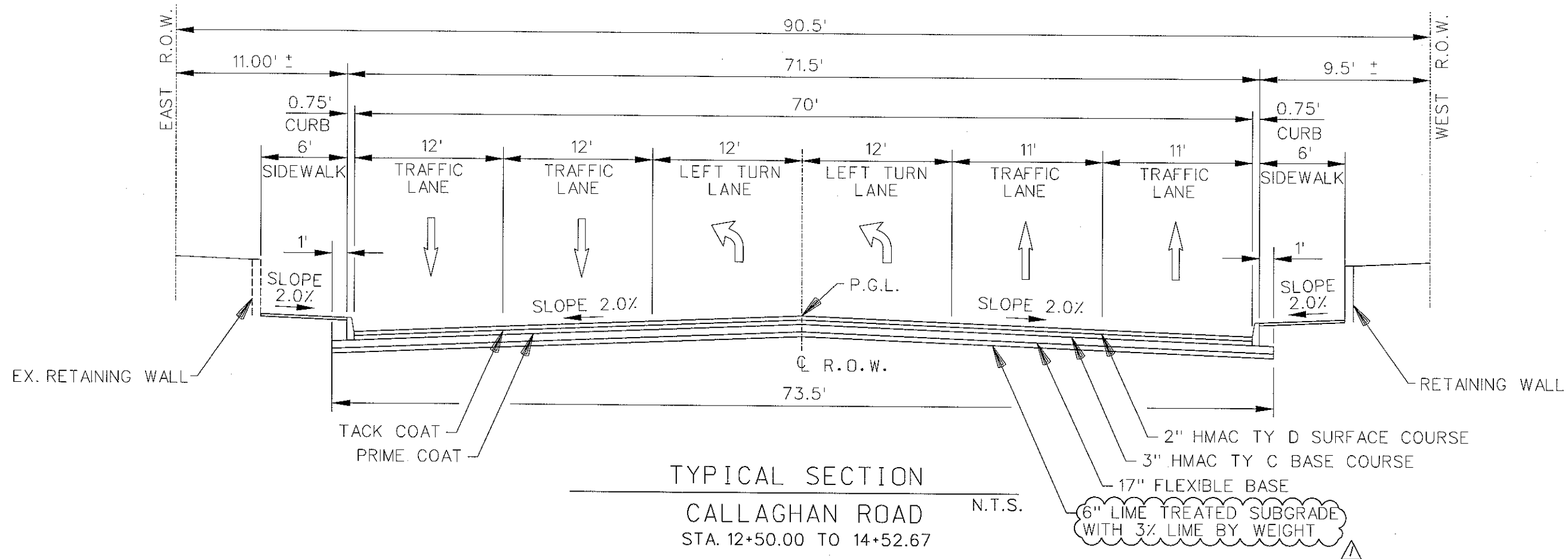
This Item will be measured by the linear foot of Cleaning or removal of existing or incorrectly installed pavement markings and/or markers.

533.6. PAYMENT: *Add:*

Payment for removing pavement markings will be paid for at the contract unit price bid per linear foot. This price will be full compensation for removal of all types of pavement markings and markers.

533.7. BID ITEM: *Add:*

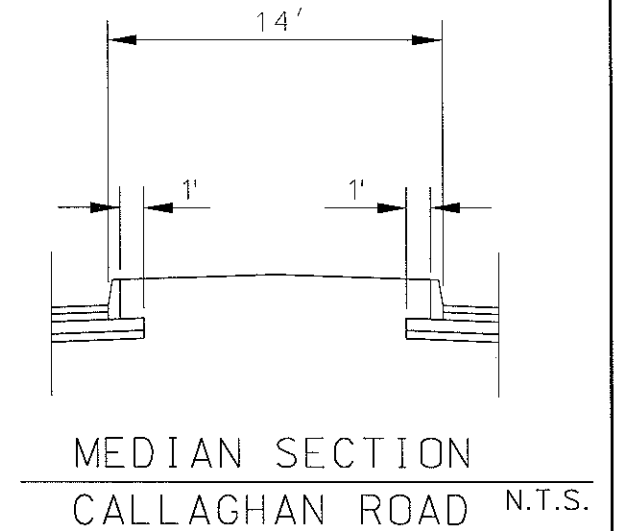
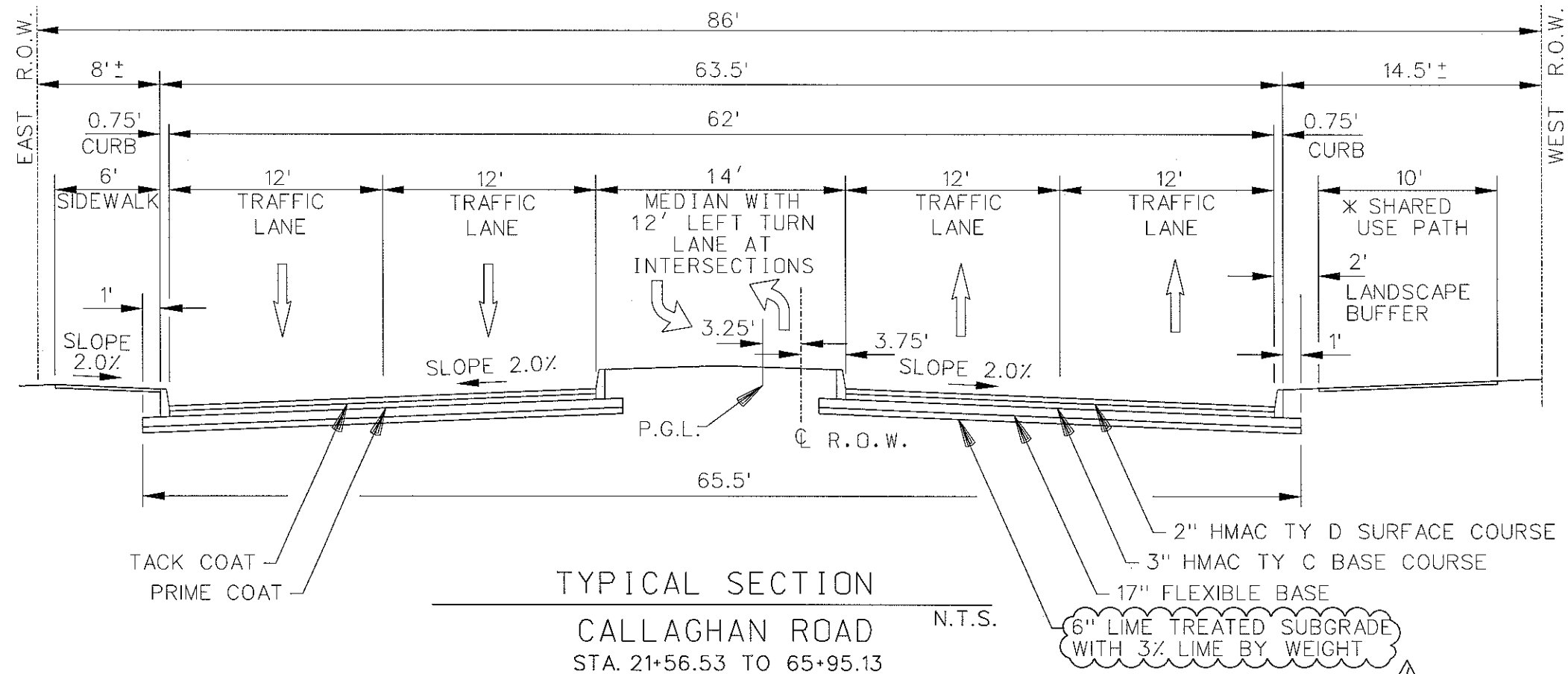
ITEM 533 - Cleaning and Removal of Pavement Markings and Markers – per linear foot



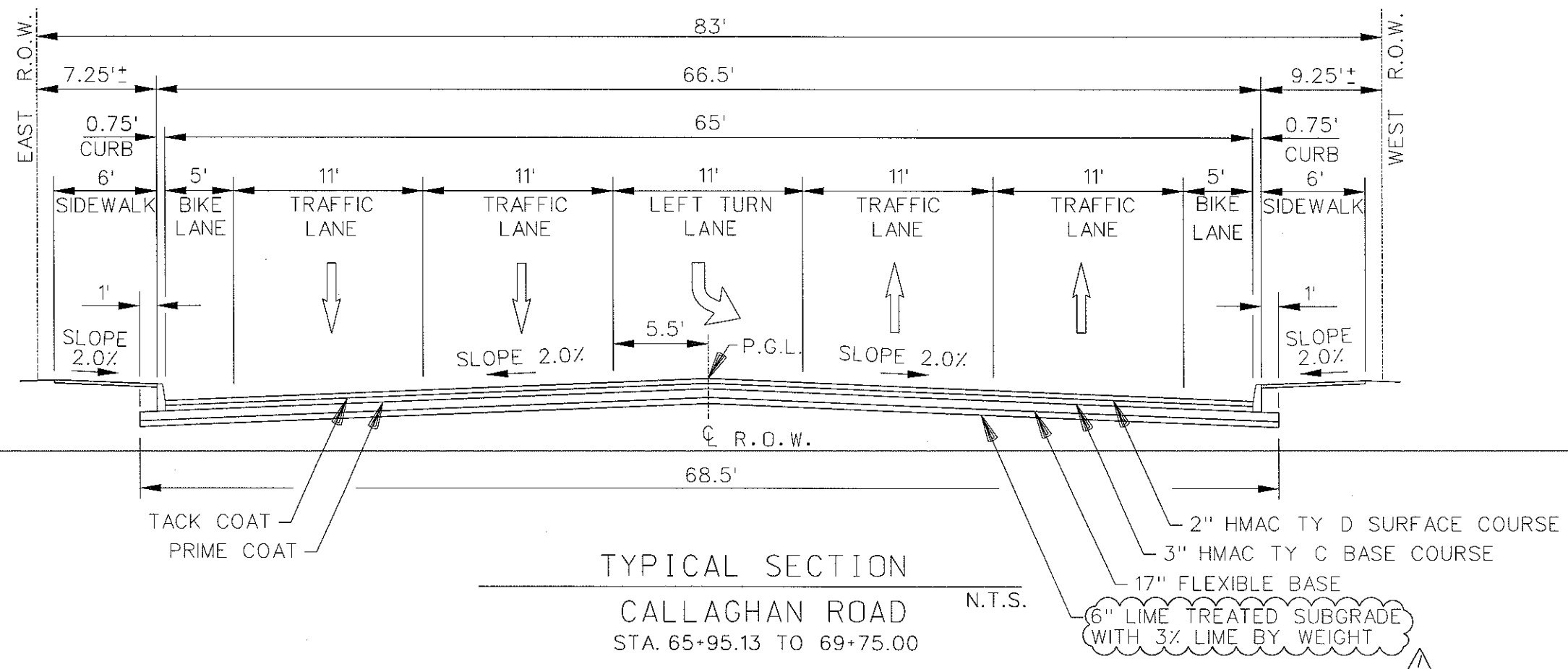
* CONTRACTOR TO USE DETAIL "CONCRETE SIDEWALK SECTION" ON SHEET 151 (MISCELLANEOUS STANDARDS 1) TO CONSTRUCT SHARED USE PATH.



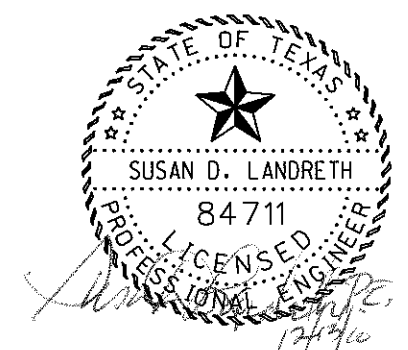
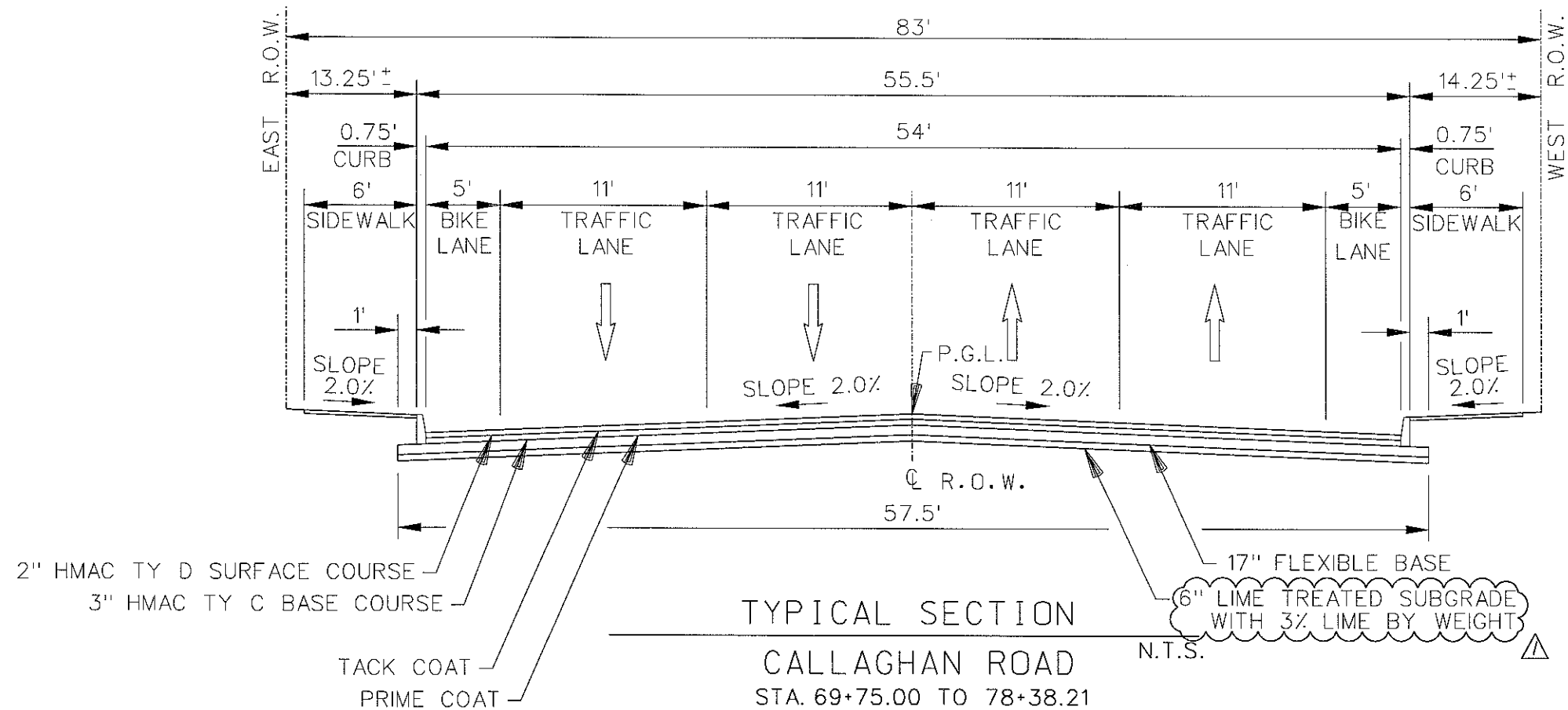
1	LIME LABELED PER ADDENDUM #2	12-10-10
No.	Description of Revision	Date
VICKREY & ASSOCIATES, Inc. CONSULTING ENGINEERS, INC. 12940 COUNTRY PARKWAY SAN ANTONIO, TEXAS 78216 VOICE: (210) 349-3271 FAX: (210) 349-2551 WWW.VICKREYNET.COM Texas Board of Professional Engineers Registration No. F-159		
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT CALLAGHAN ROAD - (CULEBRA TO COMMERCE)		
TYPICAL SECTIONS		
100 % SUBMITTAL	PROJECT NO.: 2017-012	DATE: 12/10/2010
DRWN. BY: MH	DSGN. BY: RLC, BPB	CHKD. BY: SDL
		SHEET NO.: 16 OF 334



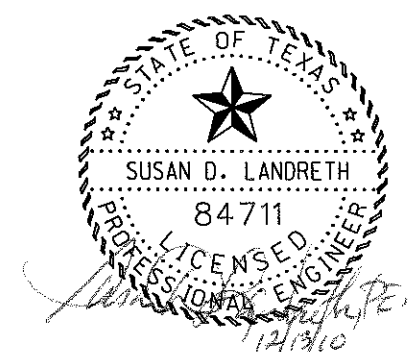
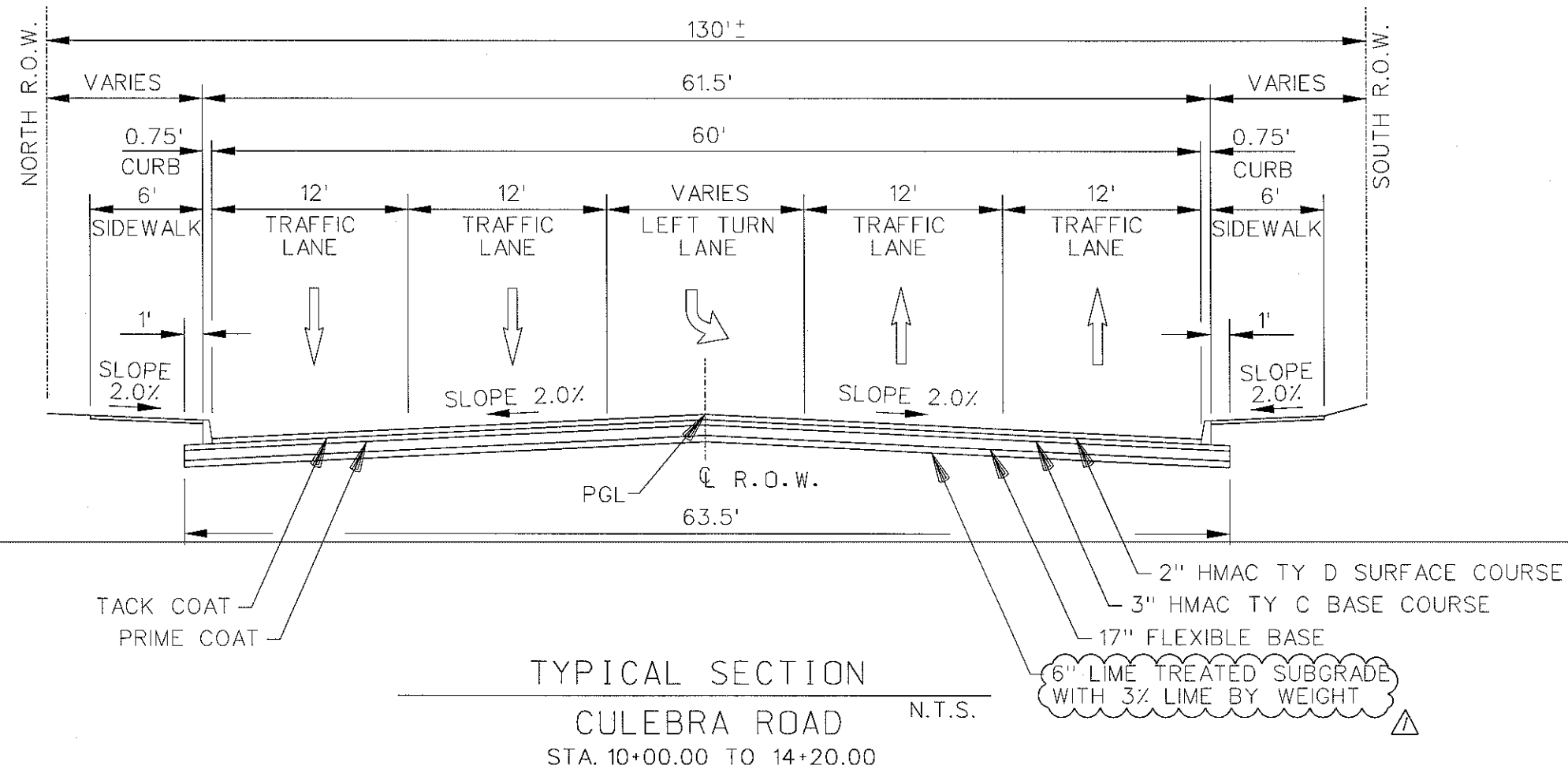
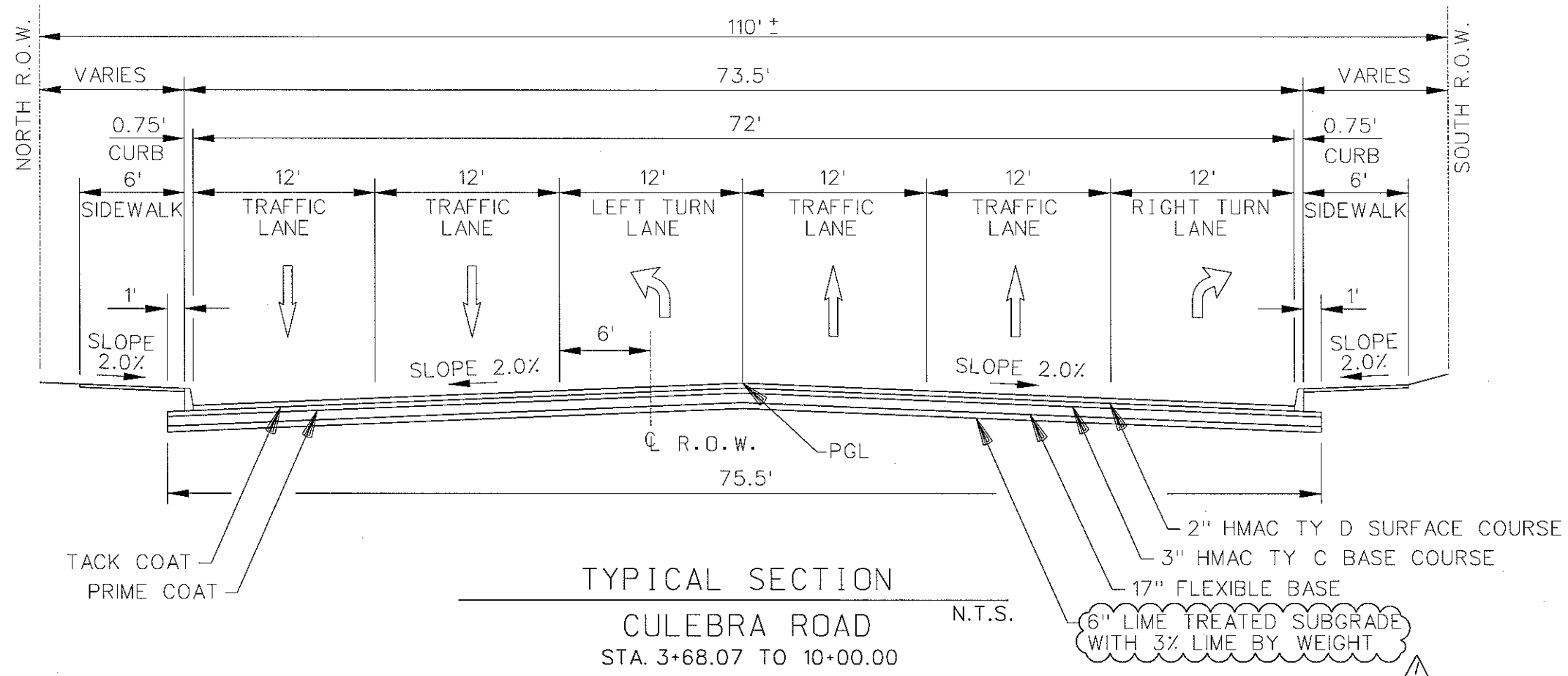
* CONTRACTOR TO USE DETAIL "CONCRETE SIDEWALK SECTION" ON SHEET 151 (MISCELLANEOUS STANDARDS 1) TO CONSTRUCT SHARED USE PATH.



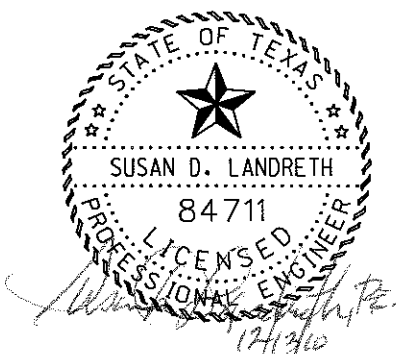
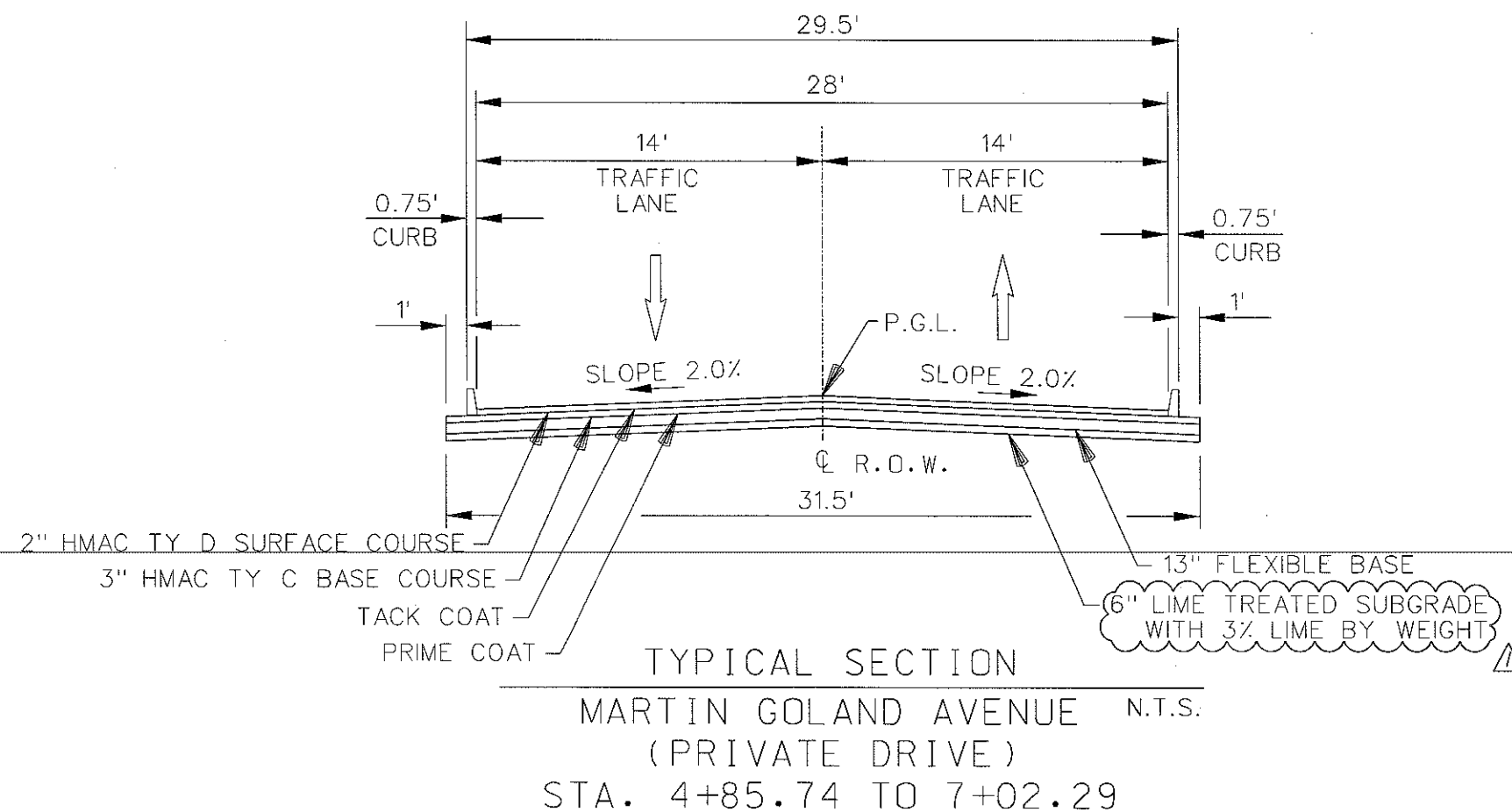
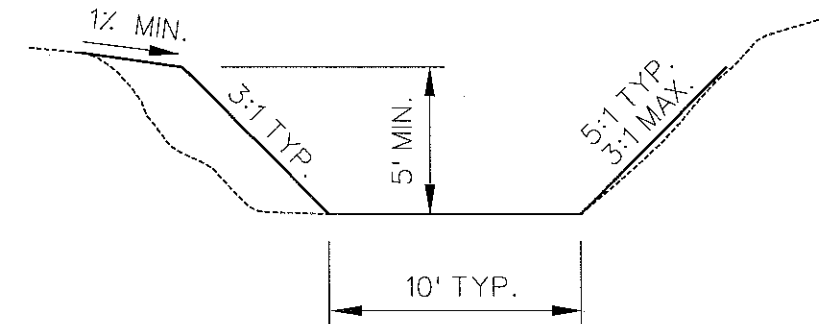
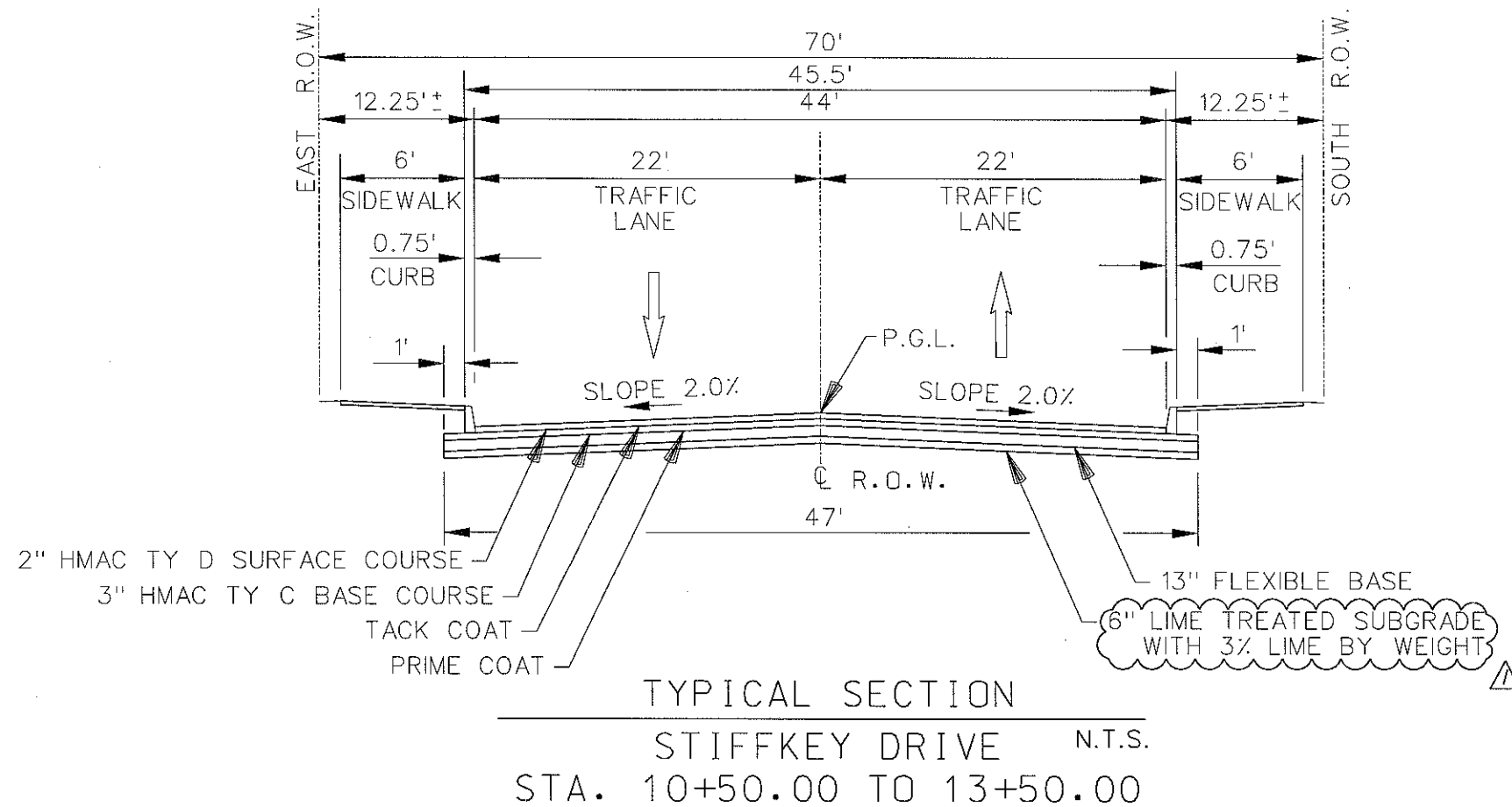
1	LIME LABELED PER ADDENDUM #2	12-10-10
No.	Description of Revision	Date
VICKREY & ASSOCIATES, Inc. CONSULTING ENGINEERS, INC. 12940 COUNTRY PARKWAY SAN ANTONIO, TEXAS 78216 VOICE: (210) 349-3271 FAX: (210) 349-2561 WWW.VICKREYNET.COM Texas Board of Professional Engineers Registration No. F-159		
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT CALLAGHAN ROAD - (CULEBRA TO COMMERCE) TYPICAL SECTIONS		
100 % SUBMITTAL	PROJECT NO.: 2017-012	DATE: 12/10/2010
DRWN. BY: MH	DSGN. BY: RLC, BPB	CHKD. BY: SDL
		SHEET NO.: 19 OF 334



1	LIME LABELED PER ADDENDUM #2	12-10-10
No.	Description of Revision	Date
VICKREY & ASSOCIATES, Inc. CONSULTING ENGINEERS, INC. 12940 COUNTRY PARKWAY SAN ANTONIO, TEXAS 78216 VOICE: (210) 349-3271 FAX: (210) 349-2561 WWW.VICKREYNET.COM Texas Board of Professional Engineers Registration No. F-159		
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT CALLAGHAN ROAD - (CULEBRA TO COMMERCE) TYPICAL SECTIONS		
100 % SUBMITTAL	PROJECT NO.: 2017-012	DATE: 12/10/2010
DRWN. BY: MH	DSGN. BY: RLC, BPB	CHKD. BY: SDL
SHEET NO.: 20 OF 334		





1	LIME LABELED PER ADDENDUM #2	12-10-10
No.	Description of Revision	Date
VICKREY & ASSOCIATES, Inc. CONSULTING ENGINEERS, INC. 12940 COUNTRY PARKWAY SAN ANTONIO, TEXAS 78216 VOICE: (210) 349-3271 FAX: (210) 349-2551 WWW.VICKREYNET.COM Texas Board of Professional Engineers Registration No: P-159		
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT CALLAGHAN ROAD - (CULEBRA TO COMMERCE) TYPICAL SECTIONS		
100 % SUBMITTAL	PROJECT NO.: 2017-012	DATE: 12/10/2010
DRWN BY: MH	DSGN BY: RLC, BPE	CHKD BY: SDL
SHEET NO.: 21 OF 334		

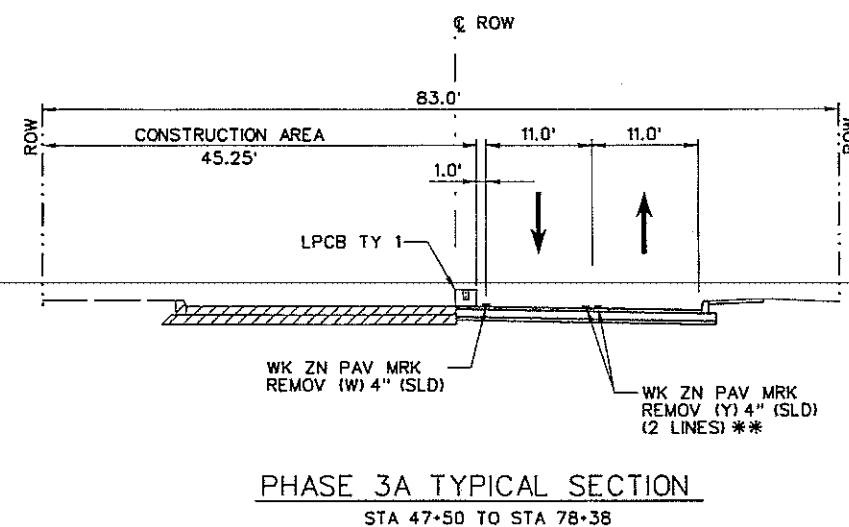
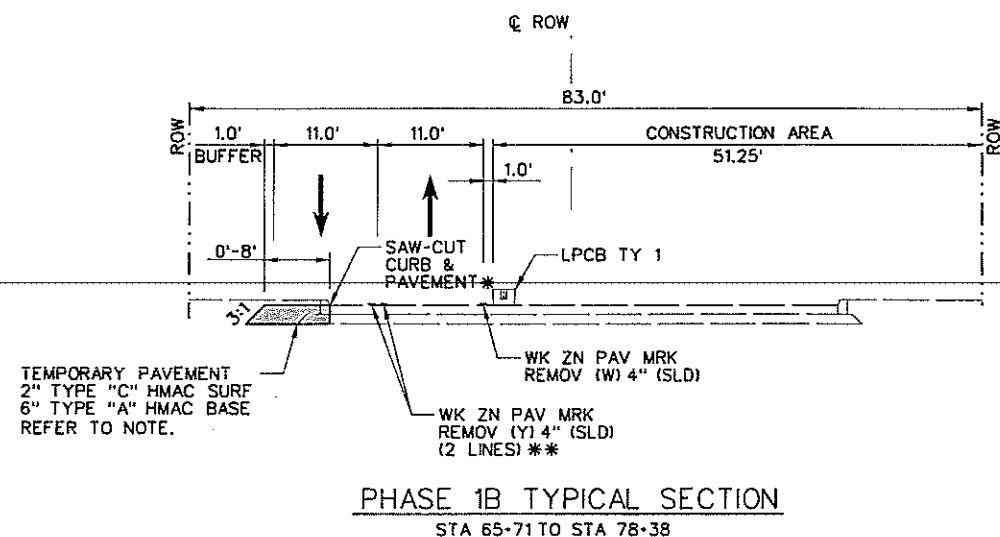
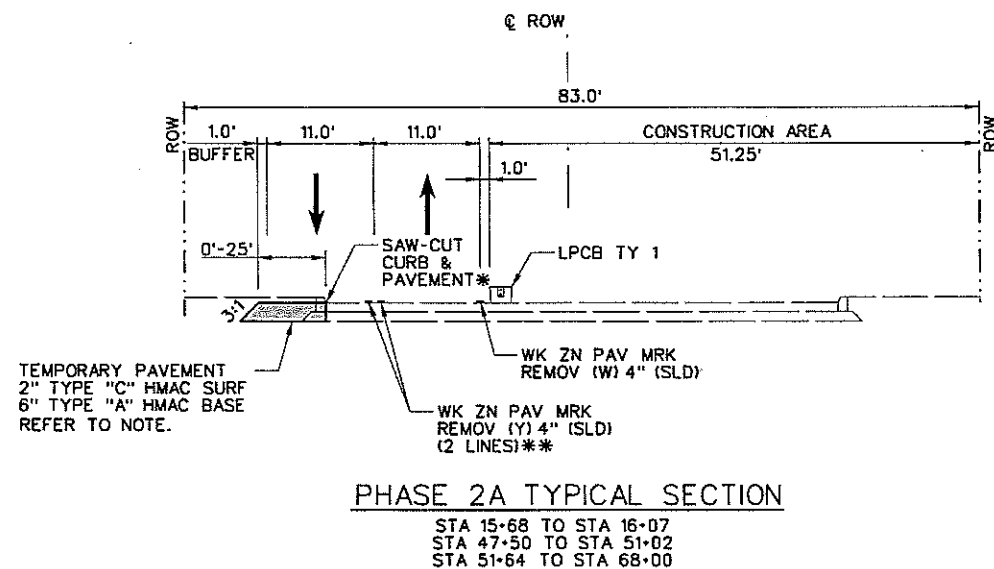
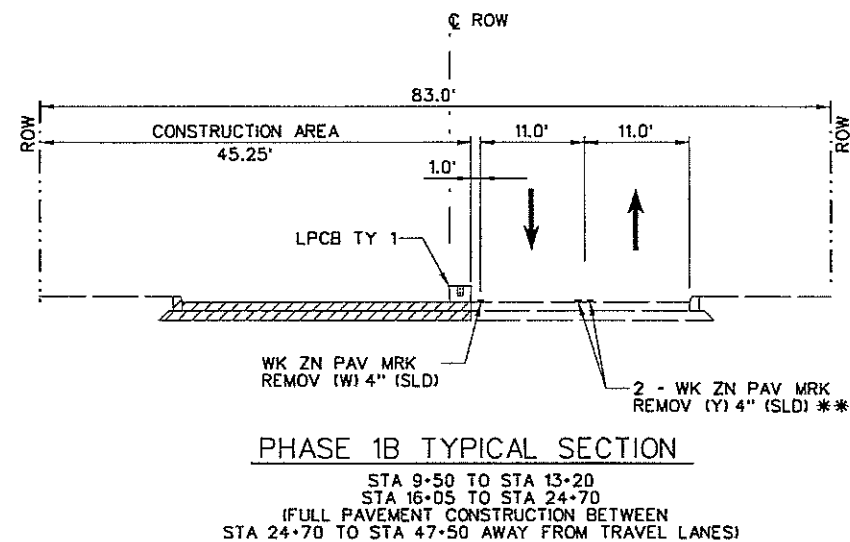
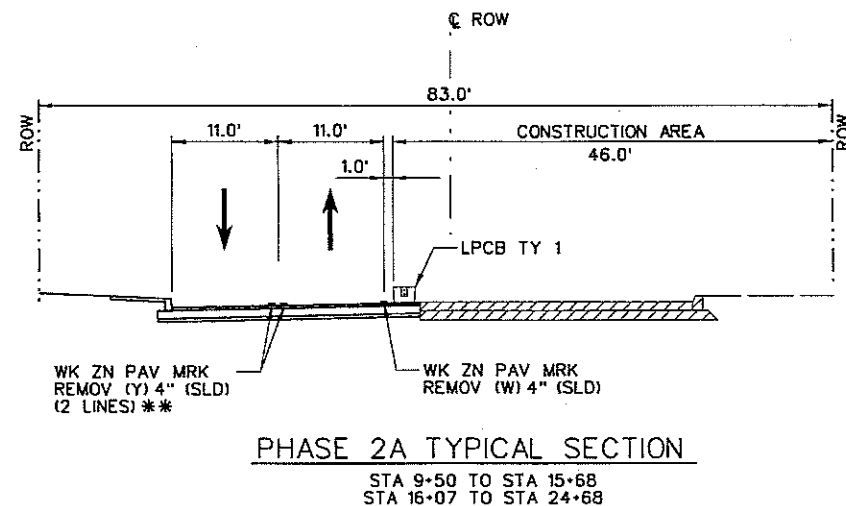
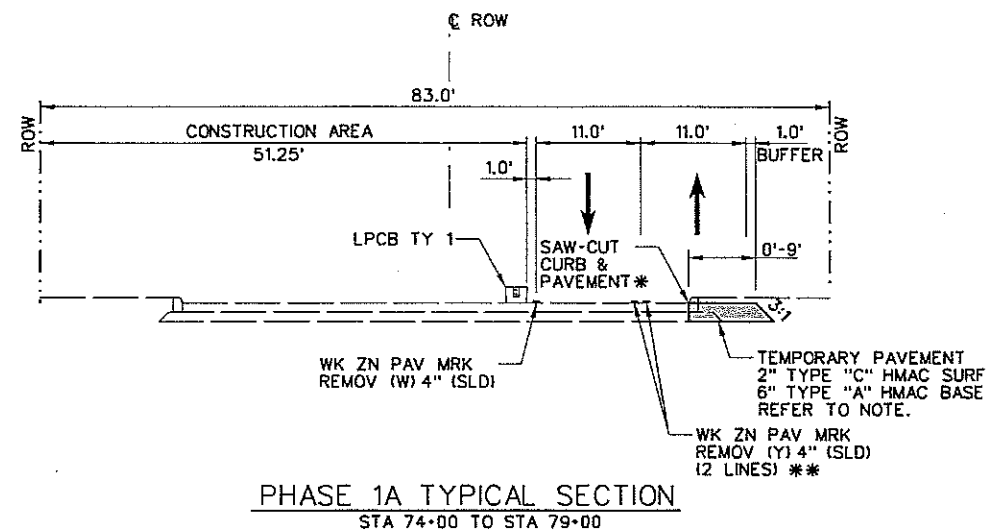


1	LIME LABELED PER ADDENDUM #2	12-10-10
No.	Description of Revision	Date
VICKREY & ASSOCIATES, Inc. CONSULTING ENGINEERS, INC. 12940 COUNTRY PARKWAY SAN ANTONIO, TEXAS 78216 VOICE: (210) 349-3271 FAX: (210) 349-2581 WWW.VICKREYNET.COM Texas Board of Professional Engineers Registration No: F-159		
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT CALLAGHAN ROAD - (CULEBRA TO COMMERCE) TYPICAL SECTIONS		
100 % SUBMITTAL	PROJECT NO.: 2017-012	DATE: 12/10/2010
DRWN. BY: MH	DSGN. BY: RLC, BPB	CHKD. BY: SDL
SHEET NO.: 22 OF 334		

12/13/2010
D:\Active Projects\1409017-Callaghan Rd\6.00 Plans and Drawings\6.30 Cut Sheets\6.3.02 Summaries\CALLSUN-TCP- 01.DGN

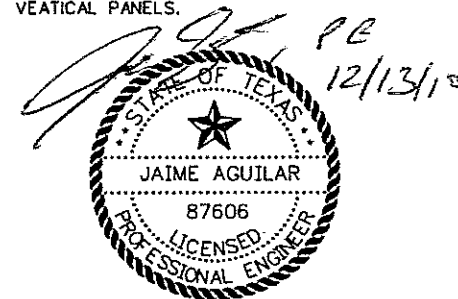
SHEET NO.	STATION TO STATION	205.1 HOT MIX ASPHALTIC PAVEMENT TY A (6") SY	205.3 HOT MIX ASPHALTIC PAVEMENT TY C (2") SY	511.1 CUTTING AND REPLACING PAVEMENTS SY	525.1 CONCRETE TRAFFIC BARRIER (PORTABLE) LF	530.1 BARRICADES SIGNS & TRAFFIC HANDLING 3% LS	533 CLEANING & REMOVAL PAVEMENT MARKINGS LF	536.1 4 INCH WIDE YELLOW LINE (SLD) LF	536.2 4 INCH WIDE WHITE LINE (SLD) LF	536.2 4 INCH WIDE WHITE LINE (BRK) LF	536.9 LEFT WHITE ARROW EA	536.9 RIGHT WHITE ARROW EA	104-2011 REMOVING CONC (MEDIAN) SY	535.7 24 INCH WIDE WHITE LINE LF	681.10 TEMPORARY TRAFFIC SIGNALS EA
	PHASE 1A														
38	STA 72+00.00 TO END	242	242	0	120	0	1000	1770	765	0	0	0	0	0	0
	PHASE 1A TOTAL	242	242	0	120	0	1000	1770	765	0	0	0	0	0	0
	PHASE 1B														
39	BEGIN TO STA 16+00	0	0	82	400	0	870	1960	1300	0	0	0	0	40	0
40	CULEBRA ROAD	0	0	766	440	0	2286	1580	1440	0	0	0	0	22	1
41	STA 16+00.00 TO MATCH LINE A-A	153	153	0	490	0	200	1620	810	0	0	0	0	0	0
42	MATCH LINE A-A TO MATCH LINE C-C	0	0	19	220	0	770	690	345	0	0	0	0	0	0
43	MATCH LINE C-C TO END	0	0	0	120	0	0	0	310	0	0	0	0	0	0
44	STA 48+00 TO STA 56+00	0	0	180	0	0	0	0	0	0	0	0	0	0	0
45	STA 56+00 TO 64+00	0	0	399	0	0	876	850	770	0	0	0	0	0	0
46	STA 64+00 TO STA 72+00	34	34	89	620	0	1347	1352	835	0	0	0	191	0	0
47	STA 72+00 TO END OF PROJECT	375	375	0	640	0	1825	2095	862	0	0	0	0	0	0
	PHASE 1B TOTAL	562	562	1535	2930	0	8174	10147	6672	0	0	0	191	22	1
	PHASE 1C														
48	CULEBRA ROAD	0	0	0	380	0	3180	2080	1240	0	0	0	0	0	0
	PHASE 1C TOTAL	0	0	0	380	0	3180	2080	1240	0	0	0	0	0	0
	PHASE 2A														
49	BEGIN TO STA 16+00.00	0	0	0	500	0	1110	1880	1180	0	0	0	0	22	0
50	CULEBRA ROAD	0	0	0	660	0	699	2820	1740	0	0	0	0	22	0
51	STA 16+00 TO STA 24+00	0	0	0	800	0	0	1620	810	0	0	0	0	0	0
52	STA 24+00 TO STA 32+00	0	0	0	180	0	0	1600	195	0	0	0	0	0	0
53	STA 32+00 TO STA 40+00	0	0	0	0	0	0	1350	0	0	0	0	0	0	0
54	STA 40+00 TO STA 48+00	197	197	0	40	0	0	1650	50	0	0	0	0	0	0
55	STA 48+00 TO STA 56+00	1511	1511	0	800	0	0	1500	800	0	0	0	0	0	0
56	STA 56+00 TO STA 64+00	3467	3467	0	800	0	1001	1600	800	0	0	0	0	0	0
57	COMMERCE STREET	0	0	0	180	0	3084	1580	1280	0	0	0	0	22	1
58	STA 64+00 TO END	104	104	0	180	0	4128	830	335	0	0	0	0	22	0
	PHASE 2A TOTAL	5279	5279	0	4140	0	10022	16430	7190	0	0	0	0	88	1
	PHASE 2B														
60	CULEBRA ROAD	0	0	0	620	0	1739	2410	1380	0	0	0	0	22	0
	PHASE 2B TOTAL	0	0	0	620	0	1739	2410	1380	0	0	0	0	22	0
	PHASE 3A														
61	BEGIN TO STA 16+00	0	0	0	0	0	1773	930	700	0	0	0	0	22	0
62	STA 16+00 TO STA 48+00	0	0	0	0	0	0	6400	0	0	0	0	0	0	0
63	STA 48+00 TO STA 56+00	0	0	0	120	0	0	1600	0	0	0	0	0	0	0
64	STA 56+00 TO STA 64+00	0	0	0	180	0	0	1600	0	0	0	0	0	0	0
65	COMMERCE STREET	0	0	0	200	0	2500	1760	740	20	0	1	0	22	0
66	STA 64+00 TO STA 72+00	0	0	0	520	0	427	1390	572	0	0	0	0	22	0
67	STA 72+00 TO END	0	0	0	480	0	0	2060	1315	0	0	0	0	0	0
	PHASE 3A TOTAL	0	0	0	1500	0	4700	15740	3327	20	0	1	0	66	0
	PHASE 3B														
68	COMMERCE STREET	0	0	0	140	0	2620	1810	1160	0	0	0	0	0	0
	PHASE 3B TOTAL	0	0	0	140	0	2620	1810	1160	0	0	0	0	0	0
	GRAND TOTAL	6083	6083	1535	9830	0	31435	50387	21734	20	0	1	191	198	2

 T.B.P.E. FIRM # 1741		
 VICKREY & ASSOCIATES, Inc. CONSULTING ENGINEERS, INC. 12940 COUNTRY PARKWAY SAN ANTONIO, TEXAS 78216 VOICE: (210) 349-3271 FAX: (210) 349-2581 WWW.VICKREYNET.COM		
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT		
CALLAGHAN ROAD - (CULEBRA TO COMMERCE) TRAFFIC CONTROL PLAN SUMMARY		
100 % SUBMITTAL	PROJECT NO.: 2017-012	DATE: 12/13/2010
DRWN. BY: RG	DSGN. BY: RG	CHKD. BY: JA
SHEET NO.: 27 OF 334		



NOTE:
THE TEMPORARY PAVEMENT 3:1 SLOPE WILL BE
CONSIDERED INCIDENTAL TO BID ITEMS:
205.1 "HOT MIX ASPHALTIC PAVEMENT TY A (6")
AND 205.3 "HOT MIX ASPHALTIC PAVEMENT TY C (2")

* SAW-CUT 1' FOOT IN FRONT OF EXISTING CURB.
** WORK ZONE PAVEMENT MARKERS
CAN BE SUPPLEMENTED WITH OTLP
VEITICAL PANELS.



CP&Y
T.B.P.E. FIRM # 1741

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12940 COUNTRY PARKWAY
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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

CALLAGHAN ROAD - (CULEBRA TO COMMERCE)

TRAFFIC CONTROL PLAN
TYPICAL SECTIONS

(6220 CULEBRA)
SOUTHWEST RESEARCH INSTITUTE
REMAINING PORTION OF
0.3190 OF AN ACRE OUT OF
113.9 ACRES
N.C.B. 11493
VOLUME 12473- PAGE 816
D.P.R.

CIC-6-10'
STA. 52+14.26- FOC 27.75' RT.
CALLAGHAN RD.

BOX CULVERT
STA. 51+38.25- 45.50' RT.
CALLAGHAN RD.

CHAINLINK
FENCE

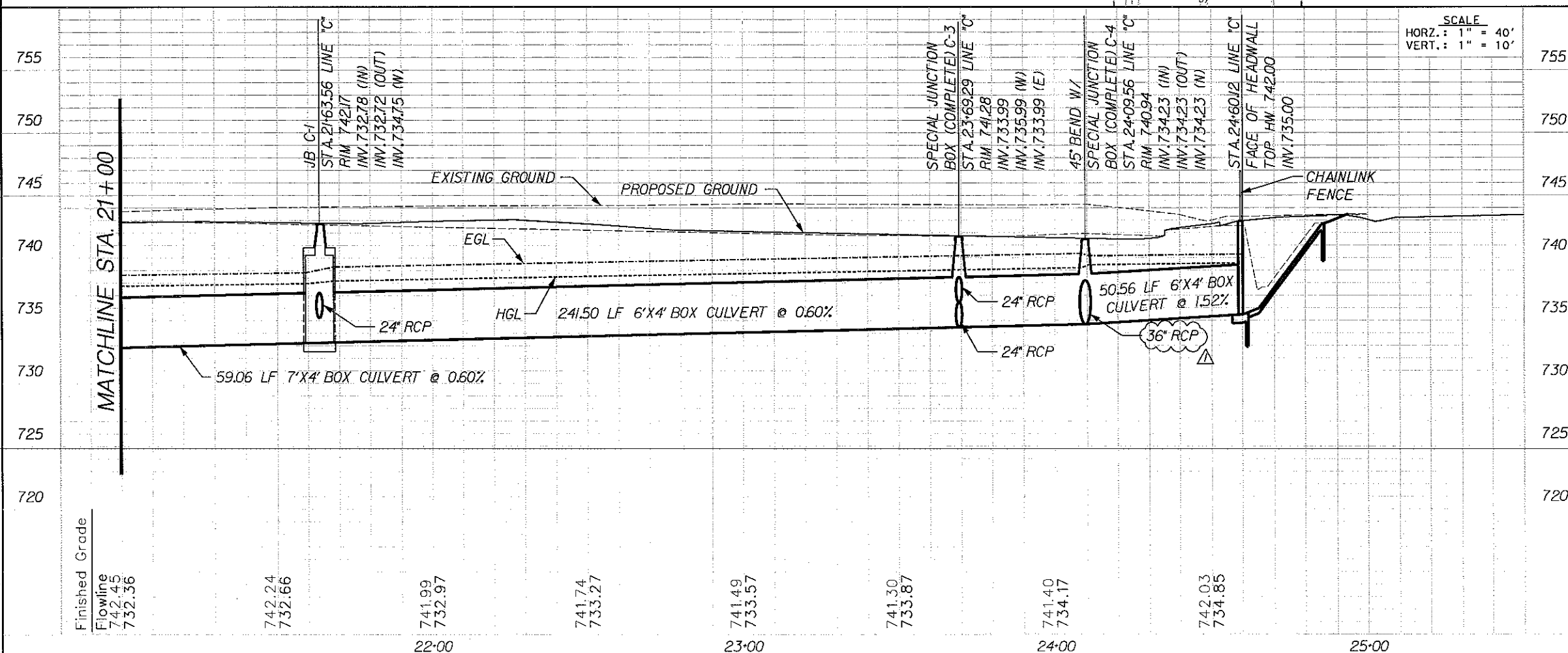
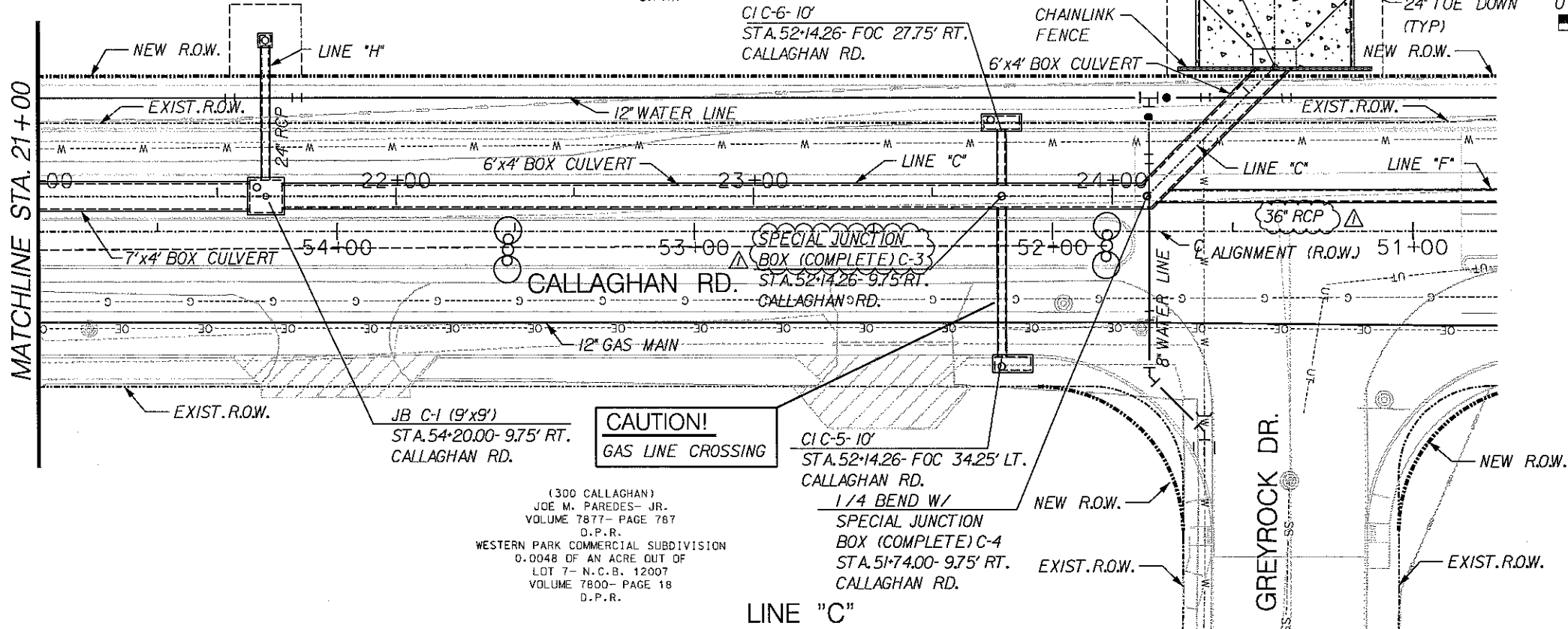
6'x4' BOX CULVERT

24" TOE DOWN
(TYP)

0 20 40
SCALE: 1"=40'

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
105.1	Channel Excavation	CY	169
106.1	Box Culvert Excavation & Backfill	CY	970
306.1	Structural Excavation	CY	14.7
307.1	Conc. Structures (Headwalls or Outfall Struc.)	CY	14
309.1	Precast Reinforced Concrete Culvert (6'x4')	LF	292.06
309.1	Precast Reinforced Concrete Culvert (7'x4')	LF	59.06
403.6	Special Junction Boxes (Complete)	EA	2
403.8	Inlet (Complete) 10"	EA	2
403.15	Junction Box 9'x9'x7' (Complete)	EA	1
410.2	Gravel Subgrade Filler	CY	48.8
505.1	Concrete Riprap (5" Thick)	SY	127
550.1	Trench Excavation Safety Protection	LF	351.12

NOTES:
1. REFER TO SHEETS 236 THROUGH 256 FOR
STORM DRAIN CONSTRUCTION DETAILS &



SCALE
HORZ.: 1" = 40'
VERT.: 1" = 10'

755
750
745
740
735
730
725
720

755
750
745
740
735
730
725
720

1 JUNCTION BOX AND PIPE PER ADDENDUM #2 12-10-10

No. Description of Revision Date

VICKREY & ASSOCIATES, Inc.
CONSULTING ENGINEERS, INC.
12940 COUNTRY PARKWAY
SAN ANTONIO, TEXAS 78216
VOICE: (210) 349-3271 FAX: (210) 349-2561 WWW.VICKREYNET.COM
Texas Board of Professional Engineers Registration No. F-159

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

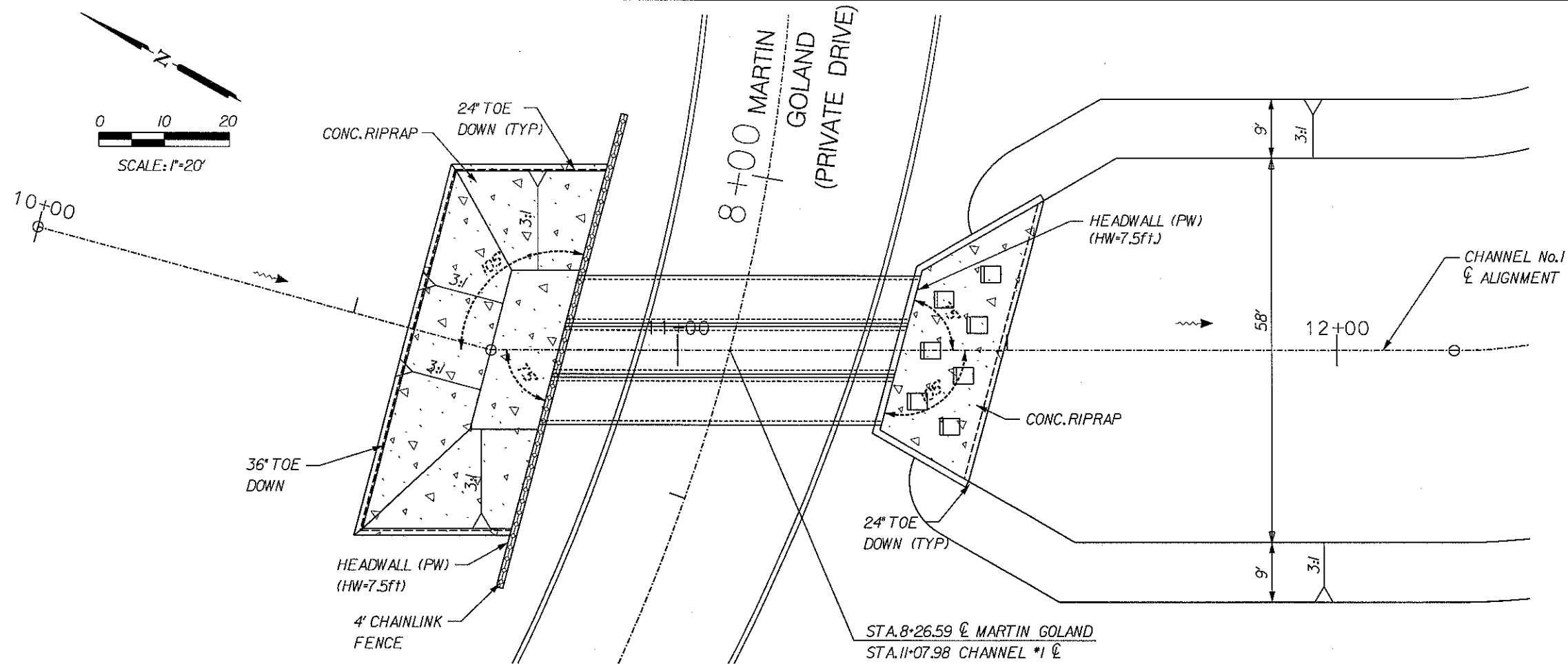
CALLAGHAN ROAD - (CULEBRA TO COMMERCE)

STORM DRAIN PLAN & PROFILE

LINE "C"

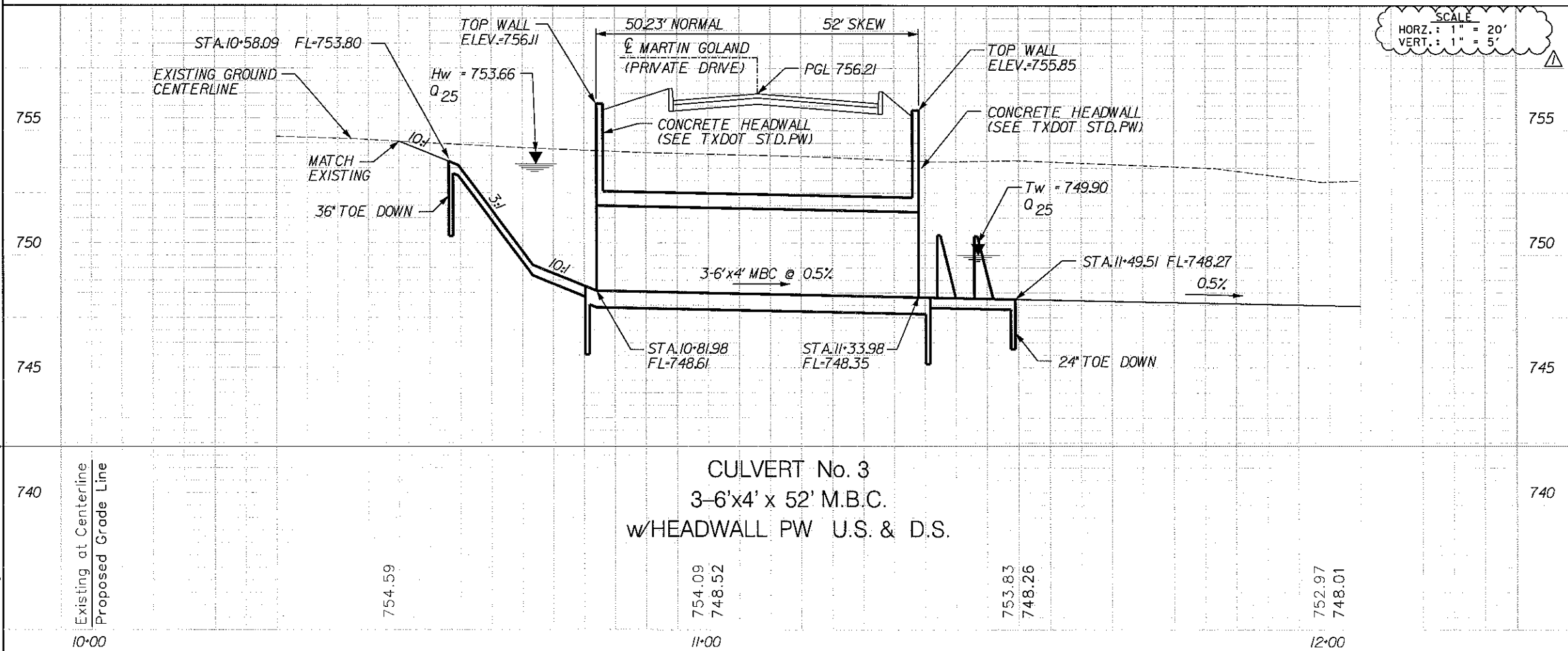
100% SUBMITTAL PROJECT NO.: 2017-012 DATE: 12/10/2010

DRWN. BY: MH DSGN. BY: RLC CHKD. BY: SDL SHEET NO.: 214 OF 334



ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
105.1	Channel Excavation	CY	480
306.1	Structural Excavation	CY	1.8
307.1	Conc. Structures (Headwalls or Outfall Struc.)	CY	32
309.1	Precast Reinforced Concrete Culvert (6'x4')	LF	156
410.2	Gravel Subgrade Filler	CY	42
505.1	Concrete Riprap (5\"	SY	205

NOTES:
1. REFER TO SHEETS 236 THROUGH 256 FOR STORM DRAIN CONSTRUCTION DETAILS & MISCELLANEOUS DRAINAGE STRUCTURE DETAILS.



SUSAN D. LANDRETH
84711
PROFESSIONAL ENGINEER

1	SCALE CORRECTED PER ADDENDUM #2	12-10-10
No.	Description of Revision	Date

VICKREY & ASSOCIATES, Inc.
CONSULTING ENGINEERS, INC.
12940 COUNTRY PARKWAY
SAN ANTONIO, TEXAS 78216
VOICE: (210) 349-3271 FAX: (210) 349-2561 WWW.VICKREYNET.COM
Texas Board of Professional Engineers Registration No. F-159

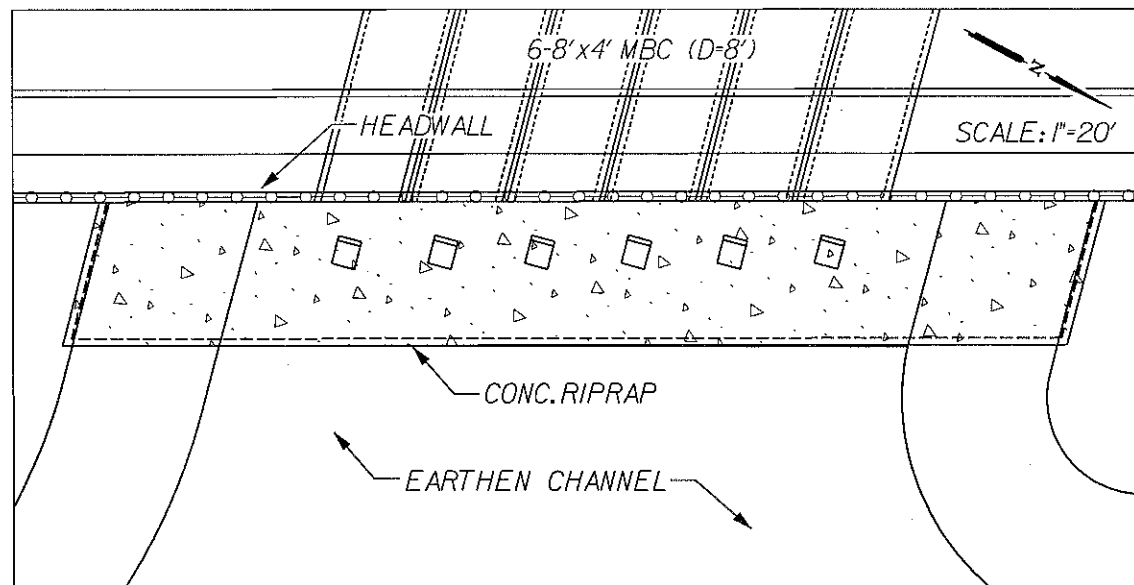
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

CALLAGHAN ROAD - (CULEBRA TO COMMERCE)

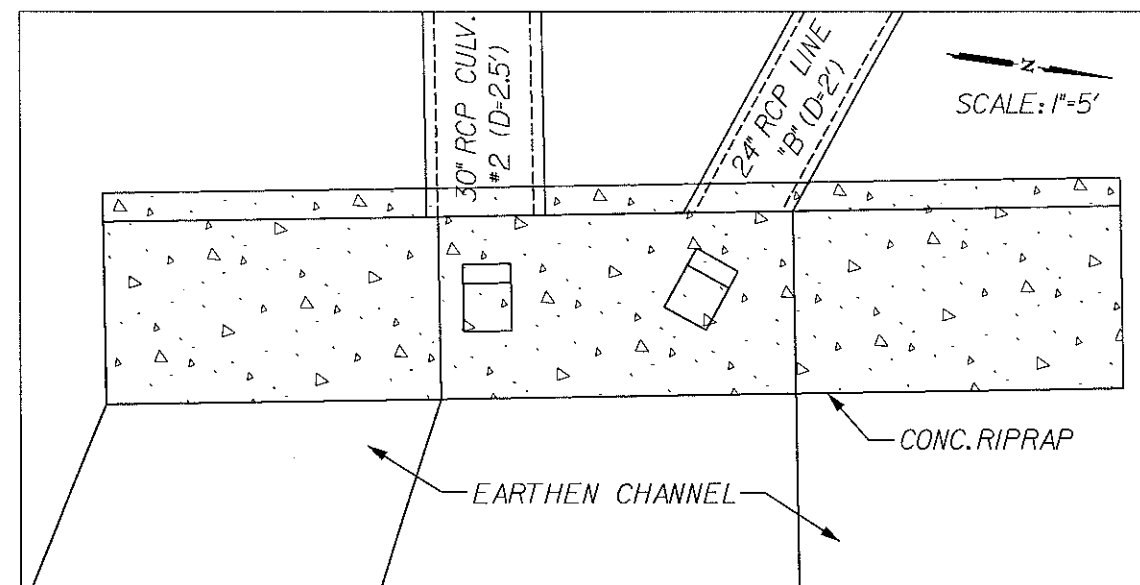
STORM DRAIN PLAN & PROFILE

CULVERT No. 3

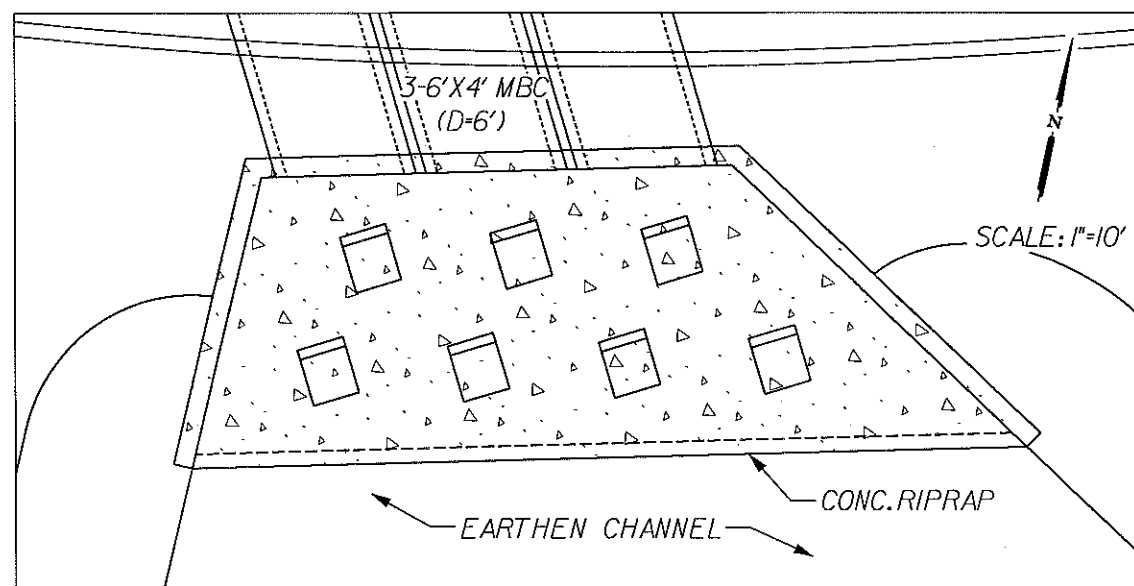
100% SUBMITTAL	PROJECT NO.: 2017-012	DATE: 12/10/2010
DRWN. BY: MH	DSGN. BY: RLC	CHKD. BY: SDL
SHEET NO.: 229 OF 334		



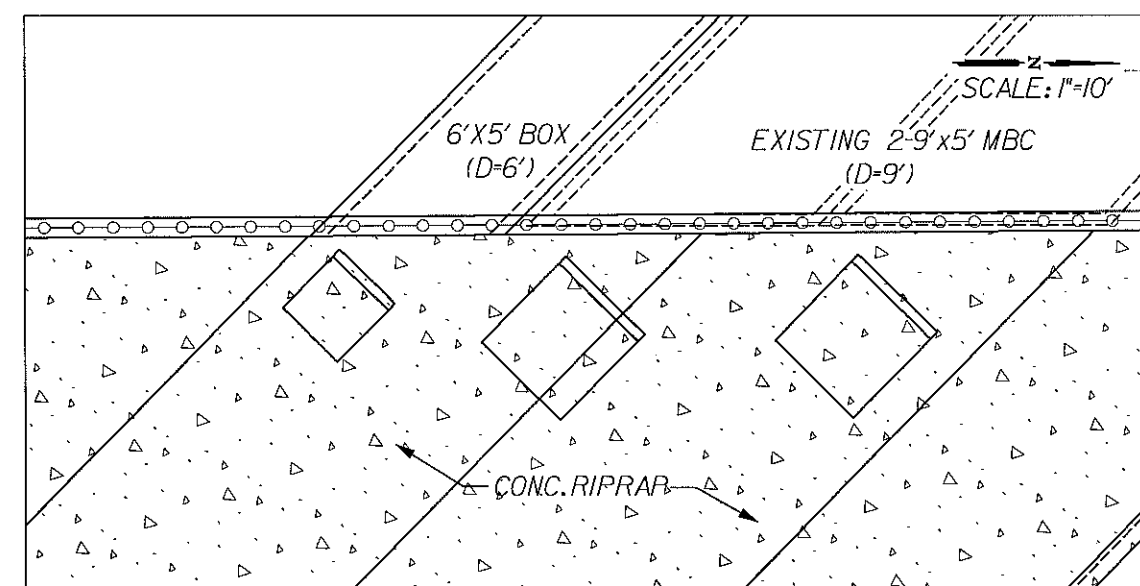
CULVERT #1



CULVERT #2 AND LINE "B"

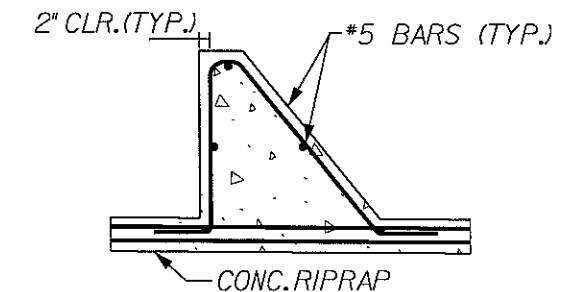


CULVERT #3



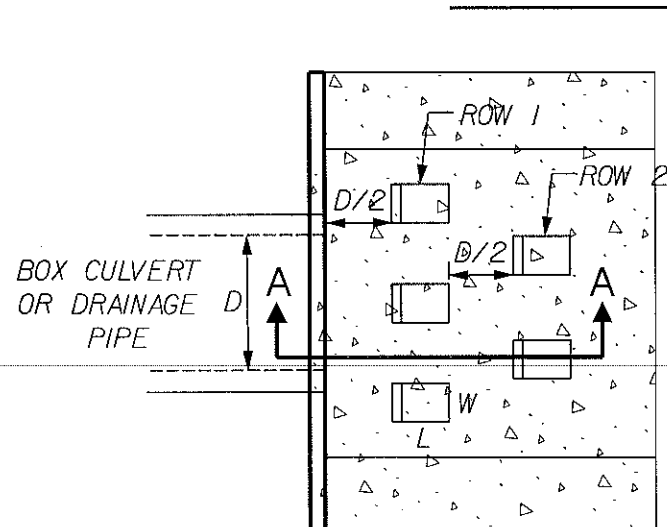
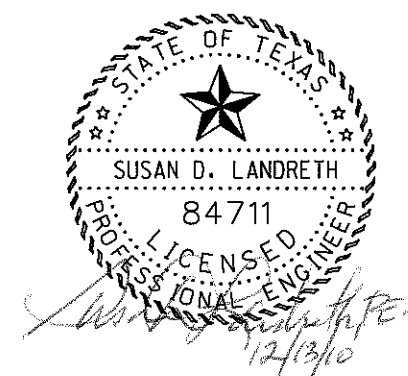
LINE "G"

- NOTES:
- 1) ROW 1 DISSIPATOR BLOCKS SHALL BE CENTERED ON BOX CULVERT OR DRAINAGE PIPE CENTERLINES, MAINTAINING THE SAME SKEW, IF APPLICABLE.
 - 2) ROW 2 DISSIPATOR BLOCKS SHALL ALIGN AT THE MIDPOINTS BETWEEN THE ROW 1 DISSIPATOR BLOCKS.
 - 3) DISSIPATOR BLOCKS TO BE PAID FOR PER PAY ITEM 307.J CONCRETE STRUCTURE (HEADWALLS OR OUTFALL STRUCTURES). REINFORCING STEEL AND ALL OTHER MATERIALS OR WORK PERTAINING TO THE DISSIPATOR BLOCKS ARE CONSIDERED SUBSIDIARY TO PAY ITEM 307.J.



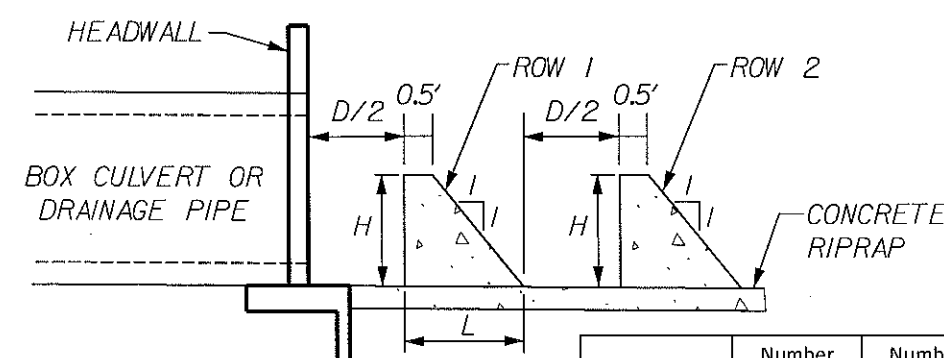
REINFORCEMENT PROFILE

N.T.S.



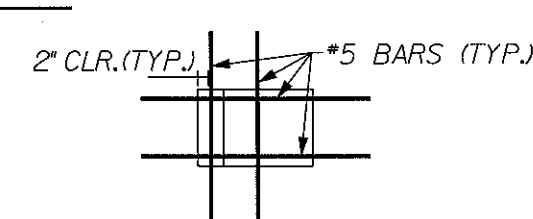
TYPICAL DISSIPATOR BLOCK PLAN

N.T.S.



SECTION "A-A"

N.T.S.



REINFORCEMENT PLAN

N.T.S.

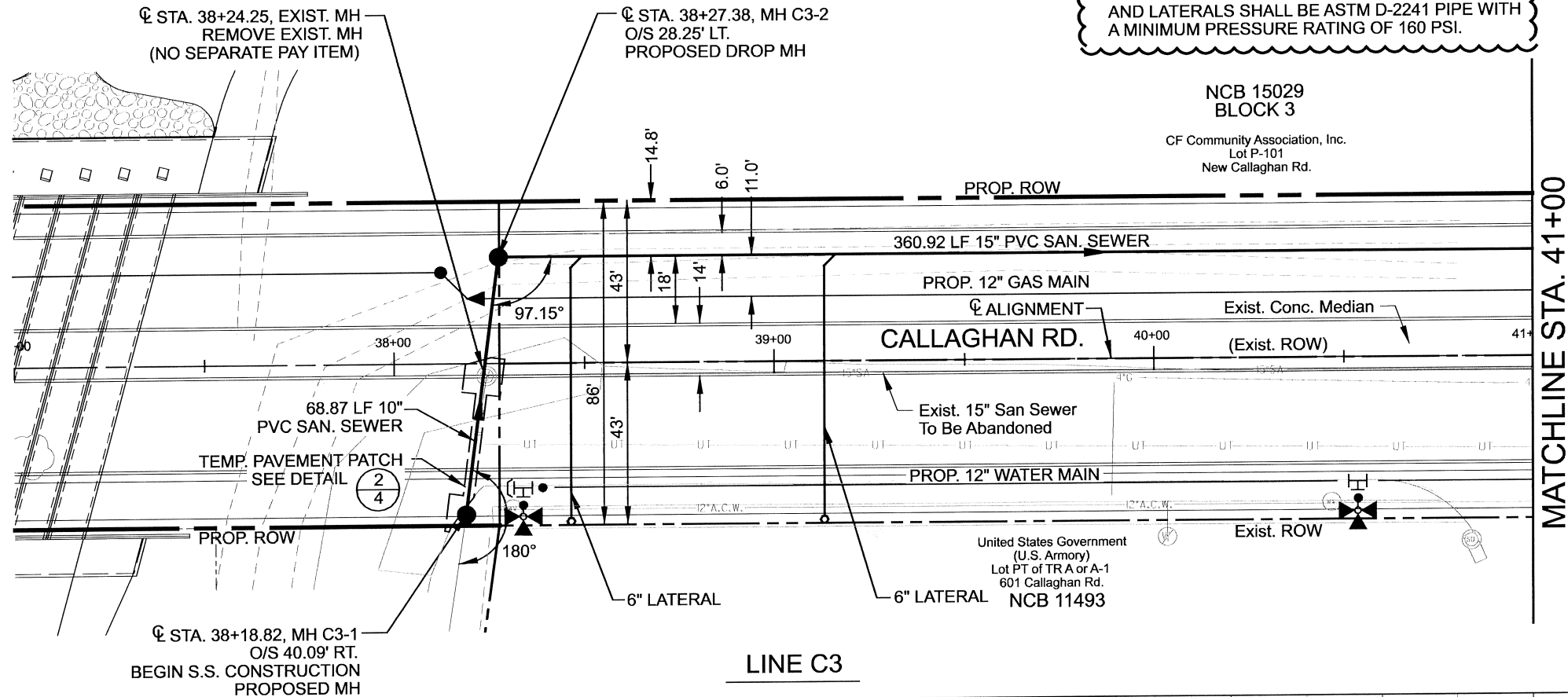
Outfall Location	Number of Blocks Row 1	Number of Blocks Row 2	D/2 (ft)	Height of Block H (ft)	Width of Block W (ft)	Length of Block L (ft)	Water Depth Tw (ft)
Culvert #1	6	N/A	4.00	2.50	2.50	3.00	2.75
Culvert #2	1	N/A	1.25	1.50	1.25	2.00	2.50
Culvert #3	3	4	3.00	2.50	2.50	3.00	2.94
Line "B"	1	N/A	1.00	1.50	1.25	2.00	N/A
Line "G" Large	2	N/A	4.50	3.75	5.75	4.25	3.93
Line "G" Small	1	N/A	3.00	3.75	3.75	4.25	3.93

1	SHEET ADDED PER ADDENDUM #2	12-10-10
No.	Description of Revision	Date
VICKREY & ASSOCIATES, Inc. CONSULTING ENGINEERS, INC. 12940 COUNTRY PARKWAY SAN ANTONIO, TEXAS 78216 VOICE: (210) 349-3271 FAX: (210) 349-2561 WWW.VICKREYNET.COM Texas Board of Professional Engineers Registration No. F-159		
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT CALLAGHAN ROAD - (CULEBRA TO COMMERCE)		
ENERGY DISSIPATOR BLOCK DETAILS		
100 % SUBMITTAL	PROJECT NO.: 2017-012	DATE: 12/10/2010
DRWN. BY: MH	DSGN. BY: RLC, BPB	CHKD. BY: SDL
		SHEET NO.: 238 OF 334

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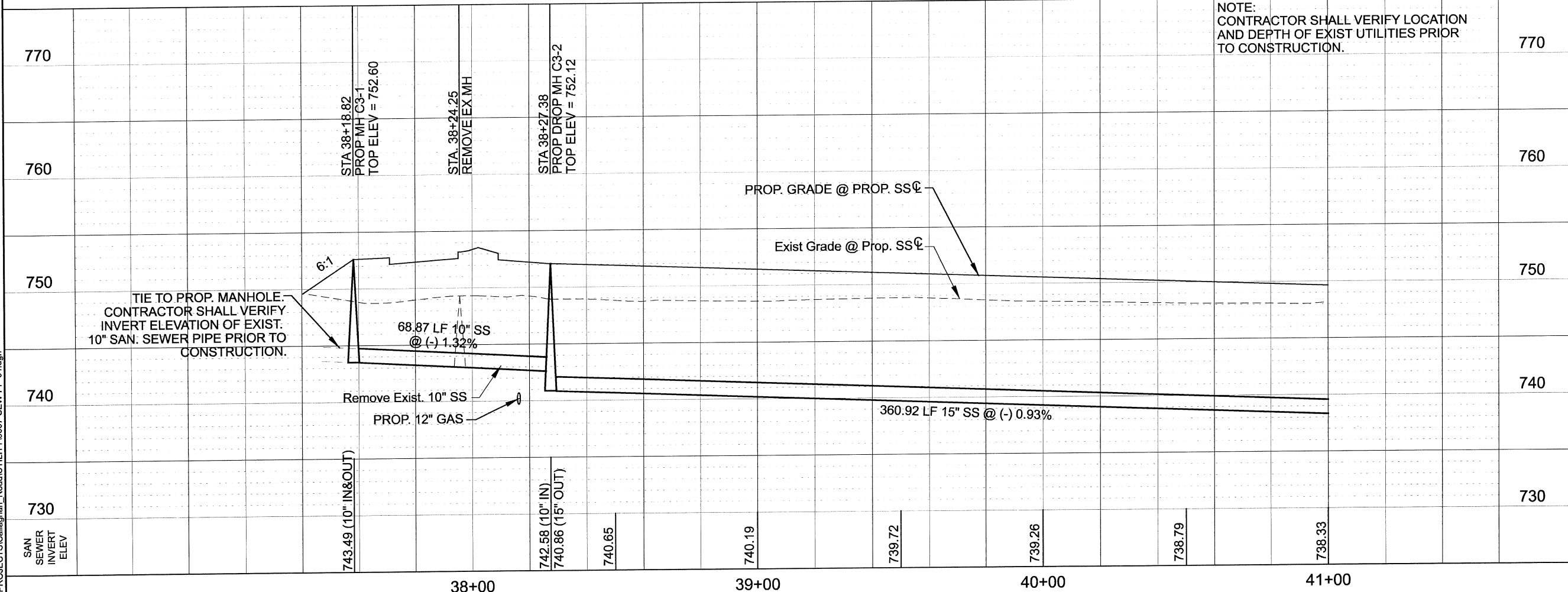
12/16/2010

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FINAL	EST	UNIT	DESCRIPTION
	31.71	SY	Replacing with Hot Mix Asphaltic Concrete Pavement (8" Compacted Depth)
	341.49	LF	Trench Excavation Safety Protection
	68.87	LF	10" PVC Gravity Sanitary Sewer Line, (6' - 10')
	272.62	LF	15" PVC Gravity Sanitary Sewer Line, (6' - 10')
	1	EA	Sanitary Sewer Manhole (0' - 6')
	1	EA	Sanitary Sewer Drop Manhole (0' - 6')
	8.37	VF	Extra Depth Manhole (> 6')
	141.25	LF	Sanitary Sewer Laterals 6"
	2	EA	One Way Sanitary Sewer Cleanout
	6.60	VF	Vertical Stacks
	274.75	LF	Abandonment of Sanitary Sewer Main and Manholes
	341.49	LF	Sewer Main Television Inspection (8" - 15")

HORZ. SCALE: 1' = 40'
VERT. SCALE: 1' = 10'



STATE OF TEXAS

ERNEST T. MAESTAS

52938

REGISTERED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY ERNEST T. MAESTAS, P.E. 52938 ON 12/16/2010

MAESTAS & ASSOCIATES, INC.

11550 IH 10 WEST, STE. 320 SAN ANTONIO, TX 78230
(210) 366-1988 (210) 366-1980 fax TBPE No.: F-333

1	ADDENDUM NO. 1	ETM	ETM	12-16-10
No.	Revision	Drawn	Approved	Date

REVISIONS

CALLAGHAN CULEBRA TO COMMERCE SANITARY SEWER PLAN AND PROFILE SHEET 4 OF 6

DEVELOPER: SAN ANTONIO WATER SYSTEM

CONT. BUDGET PROJ. #

SUBMITTED

APPROVED

MAP No. 126-584

SECT. No.

DR.GP&NC CK. ETM JOB No. 08-5558

SHEET 7 OF 9

1:24:12 PM

12/16/2010

z:\projects\callaghan_road\utility\9007-SEW-PP-05.dgn

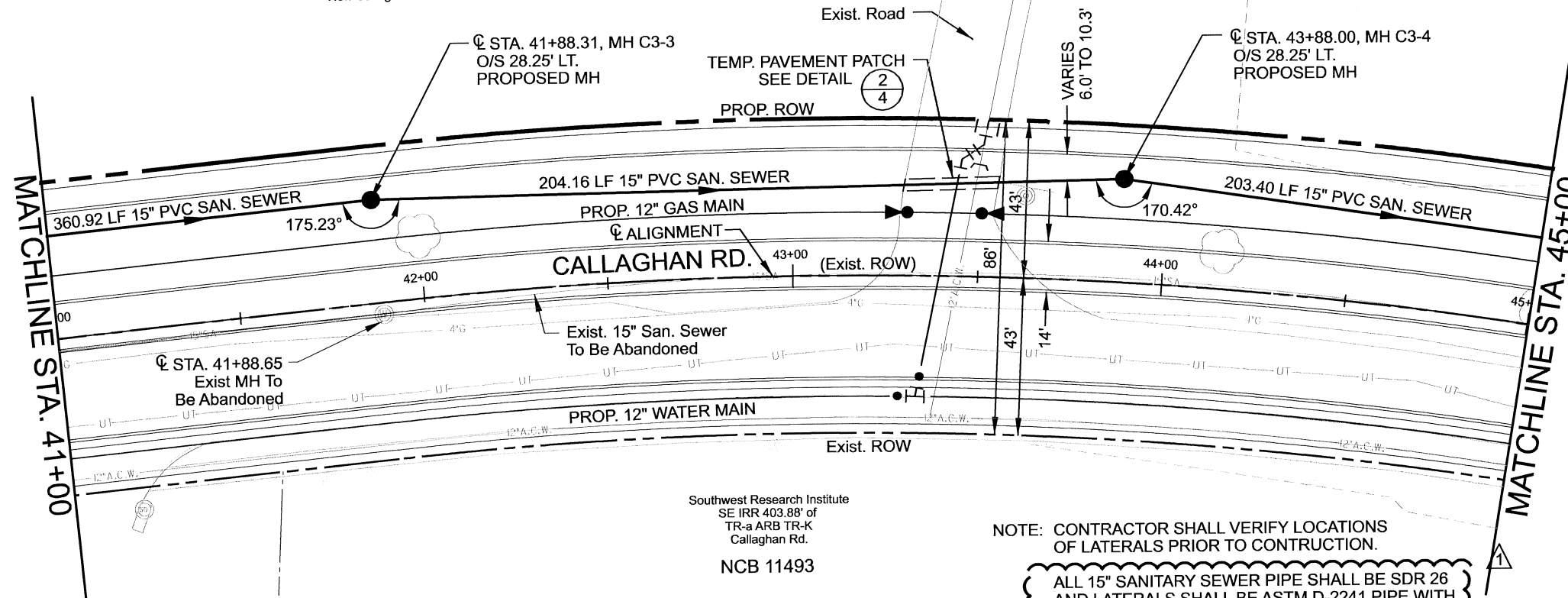
NCB 15029
BLOCK 3
CF Community Association, Inc.
Lot P-101
New Callaghan Rd.

NCB 15029&12007
BLOCK 3
CF Community Association, Inc.
Lot P-101A & Lots 3D, 4C & 5A
New Callaghan Rd.

SCALE: 1" = 40'

PLAN VIEW LEGEND

- EXIST. WATER MAIN 6"C.I.W.
- GAS MAIN 2"G
- EXIST. SANITARY SEW. 8"SA
- PROP. SANITARY SEW. 15" PVC
- STORM SEWER 24"ST
- UTILITY POLE LINE
- ELECTRIC CABLE
- TELEPHONE CABLE
- EXIST. R.O.W.
- PROP. R.O.W.
- PROP. CURB
- PROP. CLEANOUT
- CONCRETE ENCASEMENT



FINAL	EST	UNIT	DESCRIPTION
	10.23	SY	Replacing with Hot Mix Asphaltic Concrete Pavement (8" Compacted Depth)
	406.95	LF	Trench Excavation Safety Protection
	49.30	LF	15" PVC Gravity Sanitary Sewer Line, (6' - 10')
	357.65	LF	15" PVC Gravity Sanitary Sewer Line, (10' - 14')
	2	EA	Sanitary Sewer Manhole (0' - 6')
	10.77	VF	Extra Depth Manhole (> 6')
	400.00	LF	Abandonment of Sanitary Sewer Main and Manholes
	406.95	LF	Sewer Main Television Inspection (8" - 15")

NOTE: CONTRACTOR SHALL VERIFY LOCATIONS OF LATERALS PRIOR TO CONSTRUCTION.

ALL 15" SANITARY SEWER PIPE SHALL BE SDR 26 AND LATERALS SHALL BE ASTM D-2241 PIPE WITH A MINIMUM PRESSURE RATING OF 160 PSI.

NOTE: CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXIST UTILITIES PRIOR TO CONSTRUCTION.

HORZ. SCALE: 1' = 40'
VERT. SCALE: 1' = 10'



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1	ADDENDUM NO. 1	ETM	ETM	12-16-10
No.	Revision	Drawn	Approved	Date

REVISIONS
CALLAGHAN CULEBRA TO COMMERCE SANITARY SEWER PLAN AND PROFILE
SHEET 5 OF 6

DEVELOPER: SAN ANTONIO WATER SYSTEM
CONT. BUDGET PROJ. #

SUBMITTED
APPROVED

MAP No. 126-584
SECT. No.
DR.GP&NC CK. ETM JOB No. 08-5558
SHEET 8 OF 9

